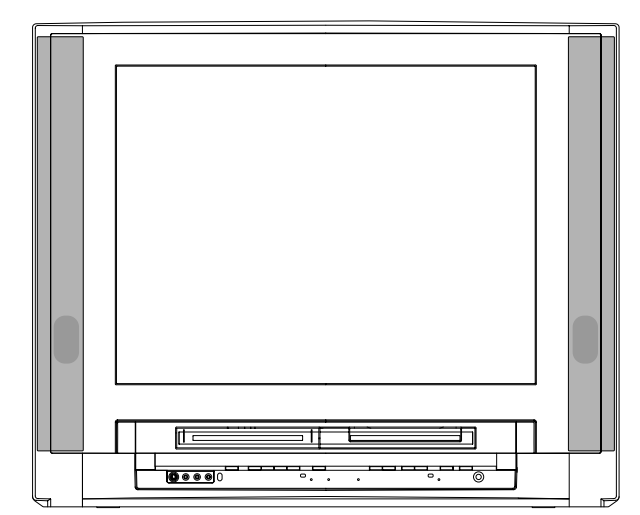
SYLVANIA

COLOR TV/VCR/DVD TRIPLE RECORDER COMBO

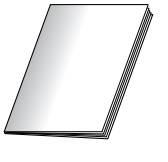
Owner's Manual

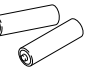
SREC427



SUPPLIED ACCESSORIES

This unit comes with the following accessories. Please confirm that all the accessories are included.





☐ Owner's Manual (1EMN20100)

☐ Remote Control (NE235UD)

☐ AA batteries x 2

NOTE

If any of acce orie are mi ing, plea e contact your dealer.

Thank you for purchasing this product.
Please make sure to read this manual before using the product, and pay particular attention to the Safety Instructions enclosed within.
When you have finished reading this manual, store it in a safe place for easy access in the future.

IF YOU NEED ADDITIONAL ASSISTANCE FOR SET-UP OR OPERATING AFTER READING OWNER'S MANUAL, PLEASE CALL TOLL FREE 1-800-605-8453.

Before you use this unit, you need to complete connections.
Refer to "Connections" on pages 10-13.

To record a program easily, refer to "Easy DVD recording" on pages 46-47 after connections are completed.
(You CANNOT copy any copyright protected DVD disc with this unit.)

INSTRUCCIONES EN ESPAÑOL INCLUDAS.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.

THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

The important note is located on the rear of the cabinet.

IMPORTANT SAFETY INSTRUCTIONS

1. Read instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug the TV/VCR/DVD from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

   EXCEPTION: A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.
6. Attachments - Do not use attachments not recommended by the TV/VCR/DVD manufacturer as they may cause hazards.
7. Water and Moisture - Do not use this TV/VCR/DVD near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. Accessories - Do not place this TV/VCR/DVD on an unstable cart, stand, tripod, bracket, or table. The TV/VCR/DVD may fall, causing serious injury to someone, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the TV/VCR/DVD.

   Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

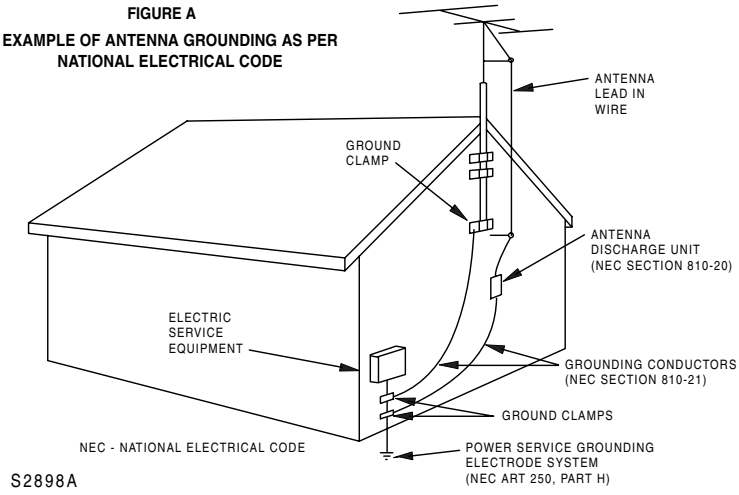
   PORTABLE CART WARNING

   S3126A

   AMEUBLES - Cet appareil ne doit être placé que sur un meuble (avec ou sans roulettes) recommandé par le fabricant. Si vous l'installez sur un meuble à roulettes, déplacez les deux ensembles avec précaution. Un arrêt brusque, l'utilisation d'une force excessive et des surfaces irrégulières risquent de déstabiliser l'ensemble et de le renverser.
9. Ventilation - Slots and openings in the cabinet and the back or bottom are provided for ventilation and to ensure reliable operation of the TV/VCR/DVD and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the TV/VCR/DVD on a bed, sofa, rug, or other similar surface. This TV/VCR/DVD should never be placed near or over a radiator or heat register. This TV/VCR/DVD should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to .
10. Power Sources - This TV/VCR/DVD should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For TV/VCR/DVD intended to operate from battery power, or other sources, refer to the operating instructions.
11. Grounding or Polarization - This TV/VCR/DVD is equipped with a polarized alternating-current line plug(a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
12. Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

FIGURE A

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
NEC - NATIONAL ELECTRICAL CODE
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
S2898A

13. Outdoor Antenna grounding - If an outside antenna or cable system is connected to the TV/VCR/DVD, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. (Fig. A)
14. Lightning - For added protection for this TV/VCR/DVD receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV/VCR/DVD due to lightning and power-line surges.
15. Power Lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light of power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
16. Overloading - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
17. Object and Liquid Entry - Never push objects of any kind into this TV/VCR/DVD through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV/VCR/DVD.
18. Servicing - Do not attempt to service this TV/VCR/DVD yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
19. Damage Requiring Service - Unplug this TV/VCR/DVD from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a. When the power supply cord or plug is damaged or frayed.
    b. If liquid has been spilled, or objects have fallen into the TV/VCR/DVD.
    c. If the TV/VCR/DVD has been exposed to rain or water.
    d. If the TV/VCR/DVD does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV/VCR/DVD to its normal operation.
    e. If the TV/VCR/DVD has been dropped or damaged in any way.
    f. When the TV/VCR/DVD exhibits a distinct change in performance-this indicates a need for service.
20. Replacement Parts - When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, injury to persons or other hazards.
21. Safety Check - Upon completion of any service or repairs to this TV/VCR/DVD, ask the service technician to perform routine safety checks to determine that the TV/VCR/DVD is in proper operating condition.
22. Heat - This TV/VCR/DVD product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

PRECAUTIONS

IMPORTANT COPYRIGHT INFORMATION
Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.
This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

RADIO-TV INTERFERENCE
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
1) Reorient or relocate the receiving antenna.
2) Increase the separation between the equipment and receiver.
3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4) Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC WARNING- This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

LASER SAFETY
This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM.
LOCATION: INSIDE, NEAR THE DECK MECHANISM.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

LOCATION
For safe operation and satisfactory performance of your TV/VCR/DVD, keep the following in mind when selecting a place for its installation:
- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes at the top and bottom of the unit. Do not place the unit on a carpet because this will block the ventilation holes.
- Install unit in a horizontal position.
- Avoid locations subject to strong vibration.
- Do not place the TV/VCR/DVD near strong magnetic fields.
- Avoid moving TV/VCR/DVD to locations where temperature differences are extreme.

AVOID THE HAZARDS OF ELECTRICAL SHOCK AND FIRE

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from an AC wall outlet. Grasp it by the plug.
- If, by accident, water is spilled on your unit, unplug the power cord immediately and take the unit to a Authorized Service Center for servicing.
- Do not put your fingers or objects into the TV/VCR/DVD disc loading tray or the cassette compartment.
- Do not place anything directly on top of the unit.

MOISTURE CONDENSATION WARNING

- Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. Do not use this unit at least for 2 hours until its inside gets dry.

REGARDING THIS MANUAL

- Product and company names appearing within this manual are trademarks or registered trademarks of their respective owners.
- Although special care has been taken to ensure that all information contained within this manual is correct at time of writing, the information is subject to change without notice.
- Make sure to read the manual carefully and follow all instructions contained within. We will not be held responsible for any damages caused by improper use or handling of this product.
- Reproducing this manual by any means, in whole or in part, is prohibited.

A NOTE ABOUT RECYCLING

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

The serial number of this product may be found on the back of this unit. No other TV/VCR/DVD has the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft.

Date of Purchase		Dealer Phone No.	
Dealer		Model No.	
Dealer Address		Serial No.	

SYMBOLS USED IN THIS MANUAL

The following is the description for the symbols used in this manual.

DVD-V : Refers to DVD video discs.

DVD-RW (Video) : Refers to DVD-RW in Video mode.

DVD-RW (VR) : Refers to DVD-RW in VR mode.

DVD-R : Refers to DVD-R discs.

CD : Refers to Audio CDs.

MP3 : Refers to CD-R/RW discs with MP3 files.

VCR : Refers to VHS tapes. Use only cassettes marked VHS.

CONTENTS

IMPORTANT SAFETY INSTRUCTIONS 2
PRECAUTIONS 4
SYMBOLS USED IN THIS MANUAL 5
CONTENTS 6
COMPONENT NAMES 7
Main Unit 7
Remote Control Unit 8
Inserting Remote Control Batteries 9
Remote Control Range 9
CONNECTIONS 10
Connection of Main Unit 10
Connection to Cable Box or Satellite Box 10
Connection to Audio System 11
Audio Setting 12
OSD DISPLAY SETTING 14
OSD LANGUAGE SETTING 15
CHANNEL SETTING 16
Auto Preset 16
Add/Delete Function 17
Selecting TV Stereo or SAP 17
CLOCK SETTING 18
Auto Clock Setting 18
Manual Clock Setting 19
DAYLIGHT SAVING TIME 20
SELECTING TV DISPLAY MODE 21
GUIDE TO DISPLAY MENUS 21

OPERATING TV

TV FUNCTIONS 22
Watching TV Program 22
Setting Sleep Timer 22
Adjusting Picture 23
Setting V-CHIP 24
Setting MPAA Rating 24
Setting TV Rating 25
Setting V-CHIP Sub Ratings 25
Setting V-CHIP Access Code 26
Selecting Closed Caption 27

OPERATING VCR

VCR FUNCTIONS 28
Playback 28
Recording 28
Normal Recording 28
One-Touch Timer Recording 29
Guide to Displays 29
Time Search 29
Other Functions 30
Auto Rewind-Eject 30

OPERATING DVD RECORDER

PLAYING 31
About DVD Playing 31
Guide to Displays 31
Language Setting 32
Basic Playback 33
Playback 33
Playback with Disc Menu 35
Playback with Title Menu 35
Special Playback 36
Resume 36
Pause 36
Fast Forward / Fast Reverse 36
Slow Forward / Slow Reverse 36
Step by Step 37
Zoom 37
Setting Marker 38
Search 38
Title/Chapter Search 38
Track Search 39
Time Search 39
Repeat/Random/Program Play 40
Repeat Play 40
Random Play 40
Program Play 41
Selecting AUDIO / VIDEO Menu 41
Switching Audio Soundtrack 41
Switching Subtitles 43
Switching Camera Angles 43
Reducing Block Noise 44
Virtual Surround Setting 44
GUIDE TO DISPLAYS ON SCREEN MENU 45
EASY DVD RECORDING 46
RECORDING 48
About DVD Recording 48
Video mode/VR (Video Recording) mode 48
Recording Speed 48
Restrictions 49
Copy Control 49
Formatting 49
Format Setting 49
Reformatting 50
Basic Recording 51
Recording TV Programs 51
Checking the recording picture quality 52
One-Touch Timer Recording 53
Finalizing Discs 54
Protecting Discs 55
Connecting to External Video Products 56
Connections 56
Recording from External Video Products 56
DUBBING 57
TIMER RECORDING 58
Timer Recording 58
Suggestions for Timer Recording 60
EDITING DISCS 61
About Disc Editing 61
Title List 61
Editing in Video Mode 61
Editing in VR Mode 61
Editing Discs in Video Mode 62
Deleting Titles 62
Naming Titles 63
Setting Chapter Markers 63
Editing DVD-RW Discs in VR Mode(Original) 64
Deleting Titles 64
Deleting Parts of Titles 65
Naming Titles 65
Setting Chapter Markers 66
Setting Pictures for Thumbnails 66
Protecting Titles 67
Releasing Title Protect 67
Editing DVD-RW Discs in VR Mode(Playlist) 68
Deleting Titles 68
Deleting Parts of Titles 69
Naming Titles 69
Setting Chapter Markers 70
Setting Pictures for Thumbnails 70
Adding Titles to Playlist 71
Deleting Playlist 71
PARENTAL LOCK LEVEL SETTING 72

CHANGING SETUP MENU

SETUP MENU LIST 73

OTHERS

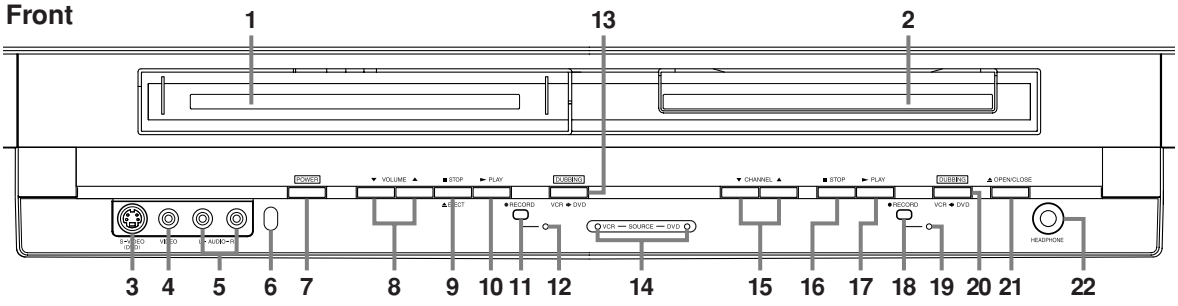
TROUBLESHOOTING 74
MAINTENANCE 78
LANGUAGE CODE 78
GLOSSARY 79
SPECIFICATIONS 80

ESPAÑOL 82

COMPONENT NAMES

Main Unit

Front



1 **Cassette compartment (VCR):** Insert a tape here.

2 **Disc tray (DVD):** Place a disc on the tray when open.

3 **S-VIDEO input jack (DVD only):** Use to connect the S-Video output of external video components with an S-Video cable.

4 **VIDEO input jack:** Use to connect external video components with a standard video cable.

5 **AUDIO (L/R) input jack:** Use to connect external video/audio components with standard audio cables.

6 **Receiving window for remote control signal:** Sensor that receives signal from the remote control unit.

7 **POWER button:** Press to turn the unit on and off. If timer programmings have been set, press to set the unit in timer-standby mode. Press to cancel the timer-standby mode, then turn the unit on.

8 **VOLUME ▲/▼ buttons:** Press to adjust the sound level.

9 **■ STOP/▲ EJECT button (VCR):**
▲ EJECT button- Press to remove the tape from the unit.
■ STOP button- Press to stop tape movement. Press to stop the proceeding timer recording in VCR.

10 **► PLAY button (VCR):** Press to start playback.

11 **● RECORD button (VCR):** Press once to begin recording. Press repeatedly to start a One-Touch Recording.

12 **RECORD indicator (VCR):** Blinks during VCR recording.

13 **DUBBING button (VCR→DVD):** Press to start VCR to DVD duplication.

14 **VCR/DVD indicator:** Shows the operating status. Indicator for VCR illuminates during VCR playing, and one for DVD illuminates during DVD playing.

15 **CHANNEL ▲/▼ buttons:** Press to change the channel up or down. During DVD playback, press to change the DVD chapter.

16 **■ STOP button (DVD):** Press to stop playback or recording. Press to stop the proceeding timer recording in DVD.

17 **► PLAY button (DVD):** Press to start or resume play.

18 **● RECORD button (DVD):** Press once to start recording. Press repeatedly to start a One-Touch Recording.

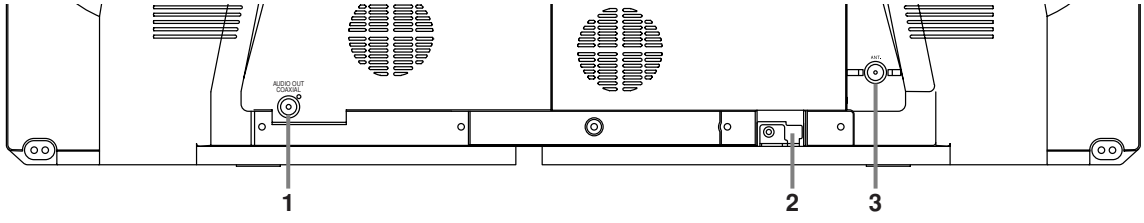
19 **RECORD indicator (DVD):** Illuminates when you have programmed the DVD or VCR timer recording, and blinks during DVD recording.

20 **DUBBING button (VCR←DVD):** Press to start DVD to VCR duplication.

21 **▲ OPEN/CLOSE button (DVD):** Press to open or close the disc tray.

22 **HEADPHONE jack:** To connect headphone (not supplied) for personal listening.

Rear

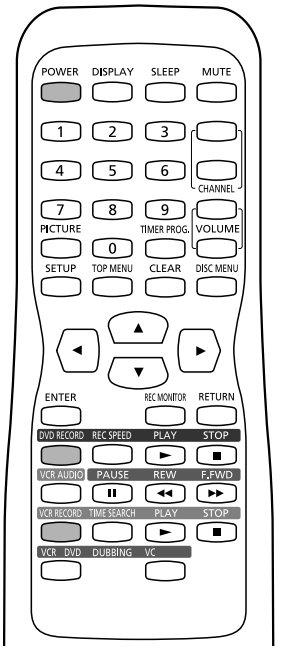


1 **AUDIO OUT COAXIAL jack (DVD sound only):** Use to connect an AV receiver with a coaxial digital input jack.
• Only DVD, CD and MP3 audio will be output from this jack.

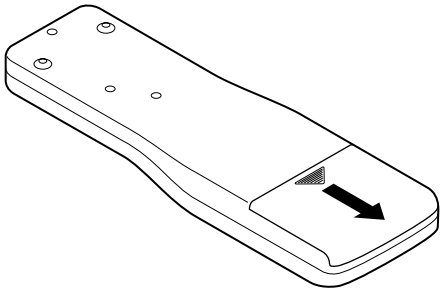
2 **AC Power Cord:** Connect to a standard AC outlet to supply power to this unit.

3 **ANT. (Antenna input) jack:** Use to connect an antenna, or cable system.

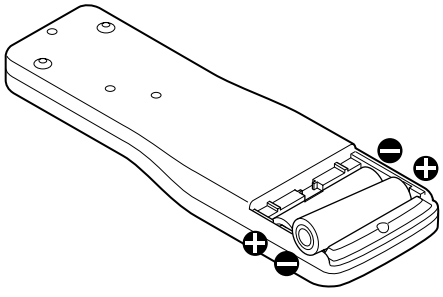
Remote Control Unit



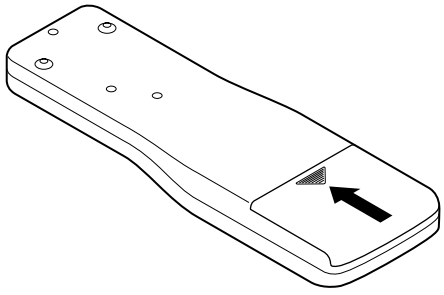
1 Slide the cover of the remote control unit down until the battery compartment appears.



2 Insert two AA size batteries, making sure that their polarities should match the symbols shown inside the battery casing.



3 Slide and close the cover of the remote control unit.



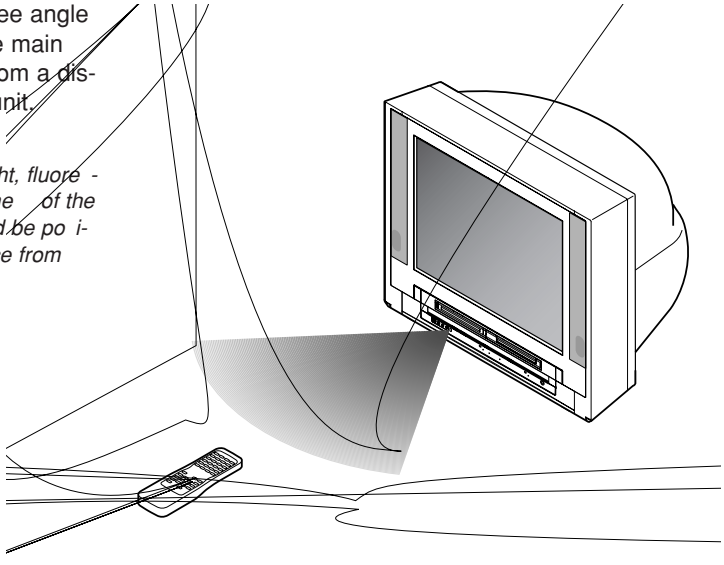
NOTE

- *Do not in ert old and new batterie mixed together.*
- *Do not in ert different brand or type of batterie mixed together.*
- *Alway in ert new batterie for replacement.*

Operate the remote control within 30-degree angle on both sides of the infrared sensor on the main unit. You can operate the remote control from a distance of several feet away from the main unit.

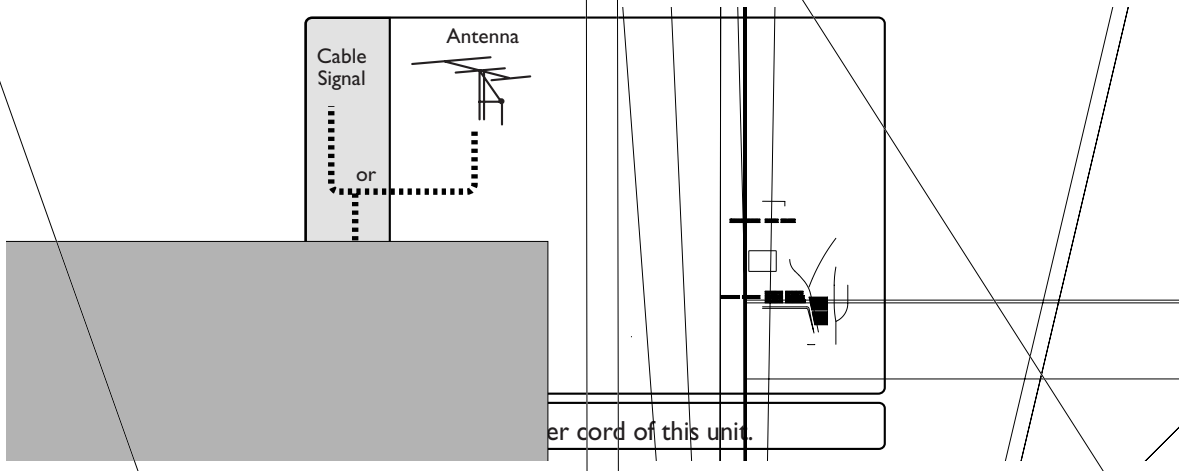
NOTE:

Other device that u e infrared beam , unlight, fluore - cent light may affect the range and effectivene of the remote control. Make ure that thi unit hould be po i- tioned where there i the minimum interference from other device .



CONNECTIONS

Connection of Main Unit



Note for the Cable TV System Installer:

Thi reminder i provided to call the Cable TV y tem in taller' attention to Article 820-40 of the National Electrical Code, which provide guideline for proper grounding - in particular, pecifying that the cable ground hall be connected to the grounding y tem of the building a clo e to the point of cable entry a po ible.

Receiver with Dolby Digital decoder

Audio Setting

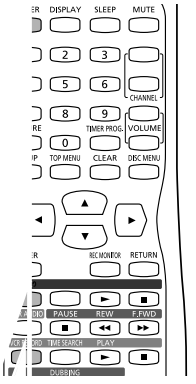
Choose the appropriate audio setting when connecting the unit to an external audio system (sold separately).

NOTE: DVD & CD Audio Only

• Only DVD and CD audio will be available to be amplified through the external audio y tem.

NOTE:

• Dynamic Range Control function i available only with di c recorded in the Dolby Digital format.



1 Press **POWER** button to turn on the unit.

2 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

3 Select "SETUP" using ◄/► buttons, then press **ENTER** button.

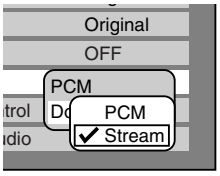
SETUP menu will appear.

4 Select "Playback" using ▲/▼/◄/► buttons, then press **ENTER** button.

Option window will appear.

5 Select a desired item using ▲/▼ buttons, then press **ENTER** button.

[B] Settings for Dolby Digital (Default : Stream)



• Select a setting using ▲/▼ buttons, then press **ENTER** button.

Your setting will be activated.

PCM : Convert the Dolby Digital into PCM 2 channel (stereo).
When your amplifier/receiver is NOT compatible with Dolby Digital, set to "PCM".

Stream : Outputs a Dolby Digital signal.
When your amplifier has a Dolby Digital decoder, set to "Stream".

NOTE:

When playing a DVD-RW disc recorded in VR mode

• If the audio source on a disc is Dolby Digital format, set "Dolby Digital" to "PCM" so that you can switch to main (L), sub audio (R), or a mix of both (L/R) with your amplifier/decoder.

Dynamic Range Control (Default : ON)

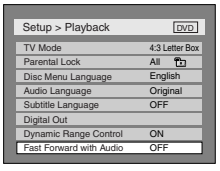
Set to “ON” to compress the range between soft and loud sounds.

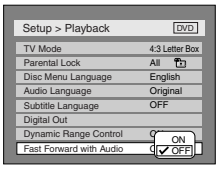
• Select a setting using ▲/▼ buttons, then press **ENTER** button.

Your setting will be activated.

Fast Forward with Audio (Default : OFF)

Set to “ON” to hear the sound during playback in fast forward of x2.



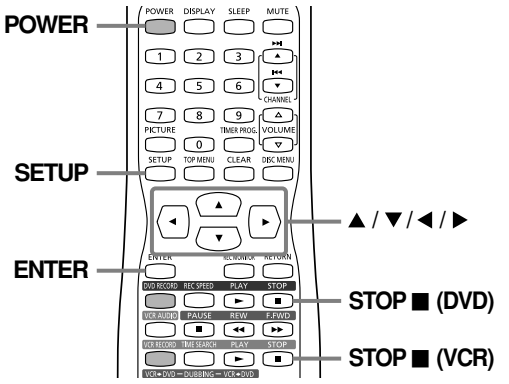


• Select a setting using ▲/▼ buttons, then press **ENTER** button.

Your setting will be activated.

6 Press **SETUP** button to exit SETUP menu.

OSD DISPLAY SETTING



Press **STOP ■ (DVD)** or **STOP ■ (VCR)** button if you are playing a disc or tape.

1 Press **POWER** button to turn on the unit.

2 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

3 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

SETUP menu will appear.

4 Select "Display" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

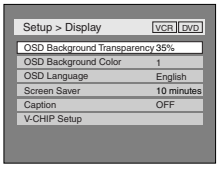
Option window will appear.

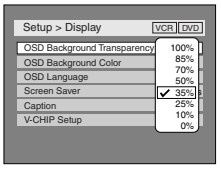
5 Select a desired item using ▲/▼ buttons, then press **ENTER** button.

OSD Background Transparency (Default : 35%)

Set the background transparency of OSD screen.

You can choose between 0% through 100%.





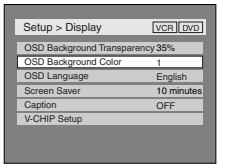
• Select a setting using ▲/▼ buttons, then press **ENTER** button.

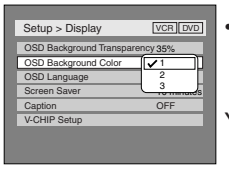
Your setting will be activated.

OSD Background Color (Default : 1 Green)

Set the OSD screen color.

You can choose one from 1(Green), 2(Blue), and 3(Red).



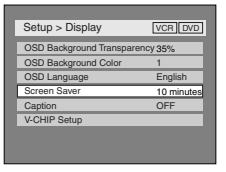


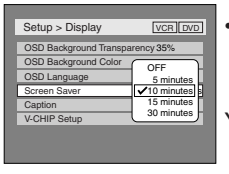
• Select a setting using ▲/▼ buttons, then press **ENTER** button.

Your setting will be activated.

Screen Saver (Default : 10 minutes)

Set the time before the screen saver appears on the screen.





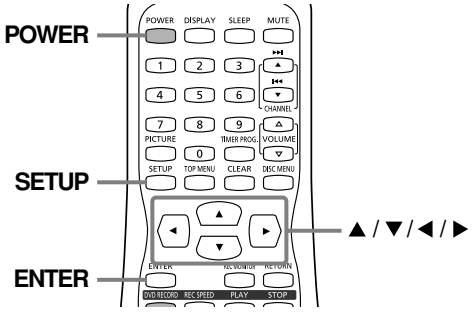
• Select a setting using ▲/▼ buttons, then press **ENTER** button.

Your setting will be activated.

6 Press **SETUP** button to exit SETUP menu.

OSD LANGUAGE SETTING

You can select the language for on-screen display (OSD).



1 Press **POWER** button to turn on the unit.

2 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

3 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

SETUP menu will appear.

4 Select "Display" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Option window will appear.

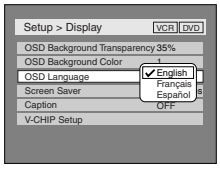
5 Select "OSD Language" using ▲/▼ buttons, then press **ENTER** button.

NOTE:

• Default OSD language setting is English.

6 Select your desired language among "English", "Français" and "Español" using ▲/▼ buttons, then press **ENTER** button.

Your language setting will be activated.

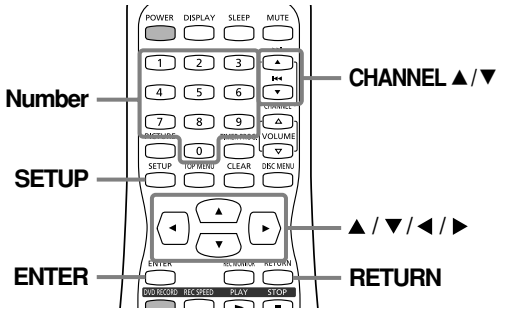


7 Press **SETUP** button to exit SETUP menu.

CHANNEL SETTING

It is recommended that you should preset channels in your area using "Auto Preset" in the Channel Preset of the SETUP menu.

Auto Preset



1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

SETUP menu will appear.

3 Select "Channel" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

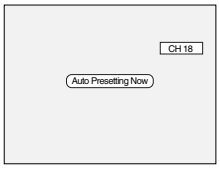
Channel Preset menu will appear.

4 Select "Auto Preset" using ▲/▼ buttons, then press **ENTER** button.

The unit will begin scanning channels available in your area.

To cancel the Auto Preset during scanning:

Press **RETURN** button or **SETUP** button to cancel.



NOTE:

- *If the Auto Pre et i cancelled before completing the pre et, ome channel that have not been pre et may not be available.*
- *The election will depend on how you receive the TV channel .*

5 Press **SETUP** button to exit.

You can select only the channels memorized in this unit by using the **CHANNEL ▲/▼** buttons.

To select a channel :

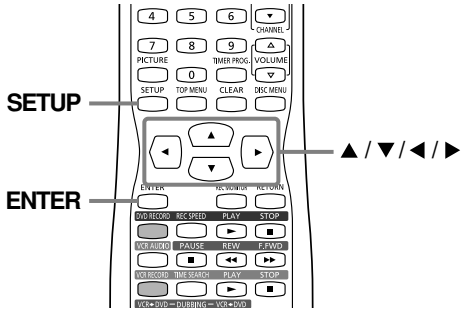
You can select a channel by directly entering channel using the **Number** buttons on the remote control.

⚠ Notes for using the Number buttons:

- *When electing cable channel which are higher than 99, enter channel number a a three-digit number. (For example: 117, pre 1,1,7)*
- *You mu t precede ingle-digit channel number with a zero (For example: 02, 03, 04 and o on).*
- *You can elect the line input mode ("AUX"). To elect "AUX" by pre ing [0], [0]. Detail are on page 56.*

Add/Delete Function

The channels you no longer receive or seldom watch can be deleted from the memory. You can also add channels into memory.



1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

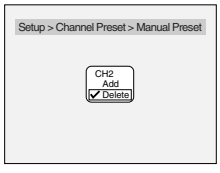
SETUP menu will appear.

3 Select "Channel" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Channel Preset menu will appear.

4 Select "Manual Preset" using ▲/▼ buttons, then press **ENTER** button.

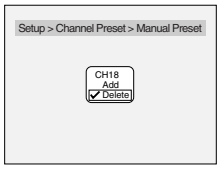
Manual Preset menu will appear.



5 Select the channel number to add or delete.

Press ◀ button to move to a lower channel number.

Press ▶ button to move to a higher channel number.



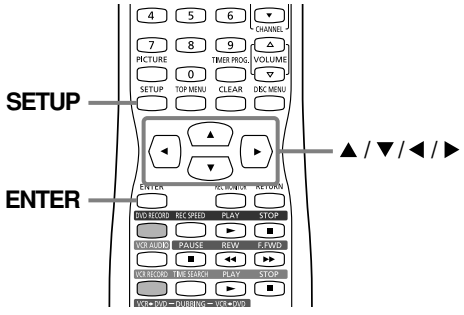
6 Select "Add" or "Delete" using ▲/▼ buttons, then press **ENTER** button.

The channel number will be added or deleted from the channel memory. The next channel number will appear so that you can continue adding or deleting channels.

7 Press **SETUP** button to exit.

Selecting TV Stereo or SAP

You can select stereo or SAP (Secondary Audio Program). "Stereo" has been selected as the default.



1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

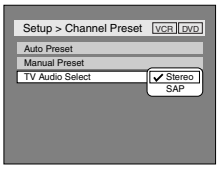
SETUP menu will appear.

3 Select "Channel" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Channel Preset menu will appear.

4 Select "TV Audio Select" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



5 Select "Stereo" or "SAP" using ▲/▼ buttons, then press **ENTER** button.

Stereo:
Outputs main-audio.

SAP: (Secondary Audio Program)
Outputs second audio channel. Refer to the item in "Glossary" on page 79 for more information.

6 Press **SETUP** button to exit.

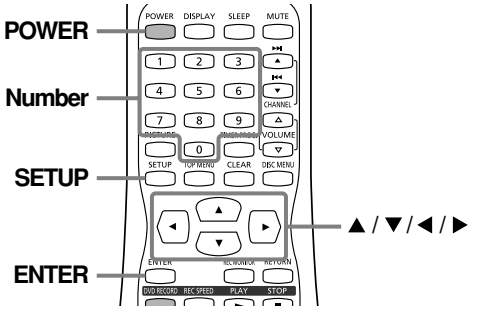
CLOCK SETTING

Set the clock before you try timer recording. If a Public Broadcasting Station (PBS) is available in your area, follow Auto Clock Setting below. If not, follow Manual Clock Setting on page 19.

⚠ Important
You must know the local PBS station in your area.

Auto Clock Setting

NOTE:
- *Make ure that the antenna or cable are connected to the unit.*
- *If the TV/VCR/DVD i connected directly to a cable converter box or atellite box, the local PBS tation mu t be elected on the cable box it elf, and the TV/VCR/DVD mu t be et to the output channel of the cable converter box or atellite box (u ually channel 3 or 4), to be able to et up or correct the clock automatically.*



1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

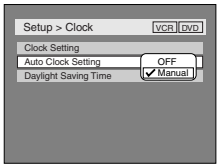
SETUP menu will appear.

3 Select "Clock" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Clock menu will appear.

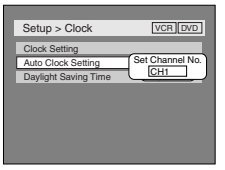
4 Select "Auto Clock Setting" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



5 Select "Manual" using ▲/▼ buttons, then press **ENTER** button.

Enter your PBS channel number using **Number** buttons or ▲/▼ buttons, then press **ENTER** button.



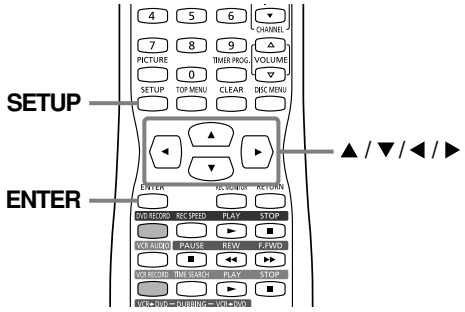
6 Press **SETUP** button to exit.

7 Press **POWER** button to turn off the unit.

This unit will search for the time when the power is off. Leave it off for several minutes to give this unit time to set the clock.

NOTE:
- *The clock may et it elf automatically after you connect the antenna/cable ignal to thi unit and plug in the power cord. After etting, turn the power on to check the current time appeared on the TV creen i correct.*
- *If the current time i not di played or the di played clock i not correct, et the clock manually.*

Manual Clock Setting



1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

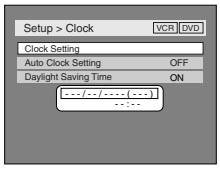
SETUP menu will appear.

3 Select "Clock" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Clock menu will appear.

4 Select "Clock Setting" using ▲/▼ buttons, then press **ENTER** button.

A clock setting window will appear.

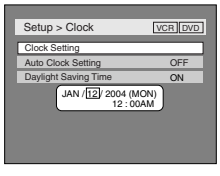


Press **ENTER** button.

Default date will appear.

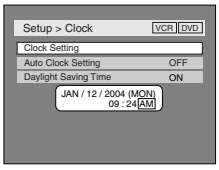
5 Enter the date (month / day / year) using ▲/▼ buttons.

Press ◀/▶ buttons to move the cursor.



6 Enter the time (hour / minute) using ▲/▼ buttons.

Press ◀/▶ buttons to move the cursor.

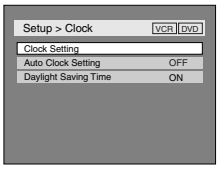


NOTE:

• Your clock etting will be lo t if either there i a power failure or thi unit ha been unplugged for more than 3 econd when you et the clock manually.

7 Press ▲/▼ buttons to select AM or PM, then press **ENTER** button.

Clock menu will appear. The settings will be activated.



8 Press **SETUP** button to exit.

Although seconds are not displayed, they begin counting from zero.

When "Auto Clock Setting" is selected to "Manual", change it to "OFF" as following steps.

Repeat steps [1] to [3] in "Manual Clock Setting".

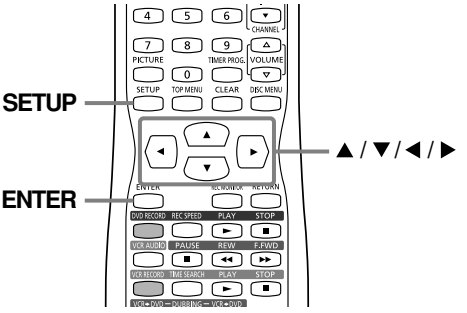
4 Select "Auto Clock Setting" using ▲/▼ buttons, then press **ENTER** button.

5 Select "OFF" using ▲/▼ buttons, then press **ENTER** button.

6 Press **SETUP** button to exit.

DAYLIGHT SAVING TIME

When Daylight Saving Time is ON, the clock will automatically move forward one hour on the first Sunday in April and move back one hour on the last Sunday in October.



1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

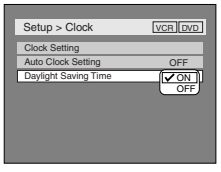
SETUP menu will appear.

3 Select "Clock" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Clock menu will appear.

4 Select "Daylight Saving Time" using ▲/▼ buttons, then press **ENTER** button.

Daylight Saving Time options will appear.



5 Select "ON" or "OFF" using ▲/▼ buttons, then press **ENTER** button.

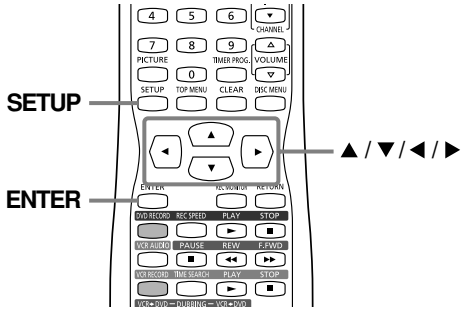
Choose "ON" when currently observing the daylight saving time.

6 Press **SETUP** button to exit.

SELECTING TV DISPLAY MODE

You can select the TV display mode to your viewing preference for DVD viewing.

"4:3 Letter Box" has been selected as the default.



1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

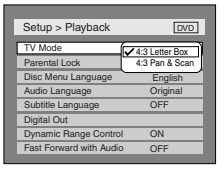
SETUP menu will appear.

3 Select "Playback" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Playback menu will appear.

4 Select "TV Mode" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



⚠

"4:3 Letter Box": black bars appear on the top and bottom of the screen.

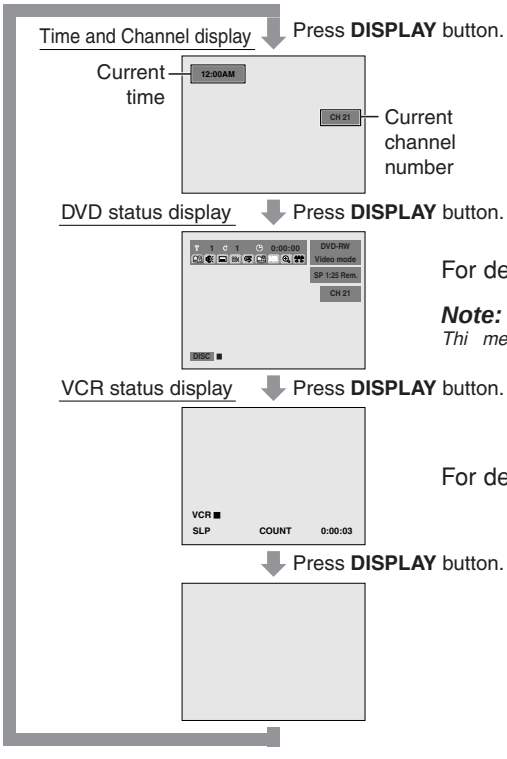
"4:3 Pan & Scan" : full height picture with both sides trimmed.

5 Select a desired option using ▲/▼ buttons, then press **ENTER** button.

6 Press **SETUP** button to exit.

GUIDE TO DISPLAY MENUS

Every time you press **DISPLAY** button, the display will change as follows:



For details, see page 31.

Note:

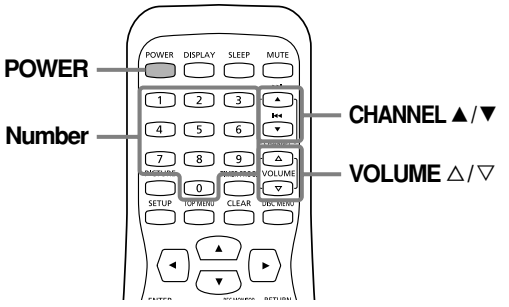
Thi menu i available only when a di c i in erted into the unit.

For details, see page 29.

OPERATING TV

TV FUNCTIONS

Watching TV Program



1 Press **POWER** button to turn on the unit.

2 Select the desired channel using **CHANNEL ▲/▼** buttons or the **Number** buttons on the remote control.

If the TV/VCR/DVD is connected to a cable box or satellite box, the TV/VCR/DVD must be on channel 3 or channel 4, then the channel to be viewed must be selected on the cable box or satellite box.

3 Adjust the volume to the desired listening level using **VOLUME △/▽** buttons.

4 Adjust picture controls for a natural looking image. Refer to "Adjusting Picture" on page 23.

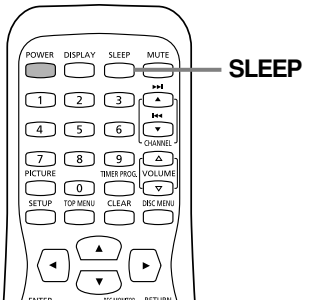
5 When you finish watching TV, press **POWER** button to turn the power OFF.

⚠Degaussing

Magnetism from nearby appliances and unshielded speaker systems might affect the color of the TV picture.

If this happens, move this TV/VCR/DVD away from the appliance. If the color is still not correct, unplug the power cord, then plug it in again 30 minutes later.

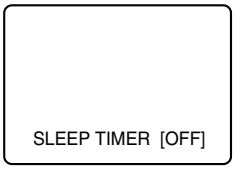
Setting Sleep Timer



The sleep timer function automatically turns off the power in the specified time period.

1 Press **SLEEP** button.

Sleep timer menu will appear.



2 Press **SLEEP** button repeatedly to change the sleep time.

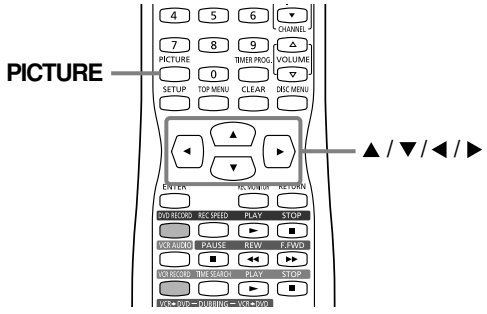
The timer can be set up to 2 hours, by 30 minutes each time you press **SLEEP** button.

3 To cancel the sleep timer, press **SLEEP** button repeatedly until "SLEEP TIMER [OFF]" is displayed.

NOTE:

- *If you di connect the unit from the AC outlet, or if you have a power failure, the leep time etting will be lo t.*
- *Thi function doe not operate during Recording mode.*

Adjusting Picture



1 Press **PICTURE** button.

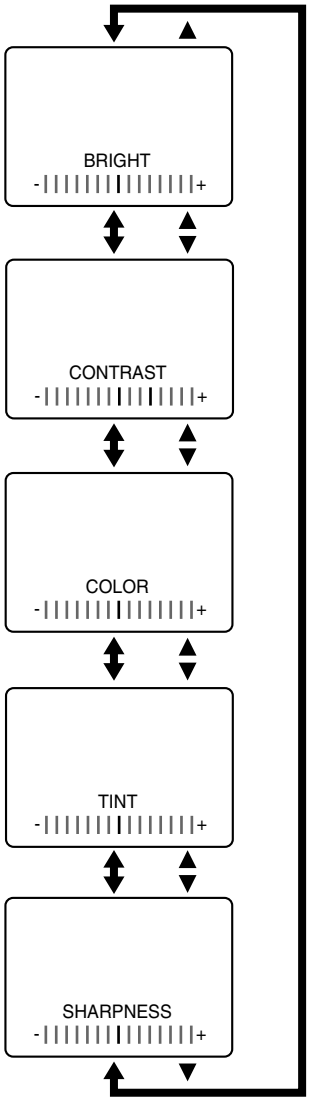
2 Select the setting item using ▲/▼ buttons.

NOTE:
*• You can u e al o **PICTURE** button to elect the etting item.*

Adjust using ◀/▶ buttons.

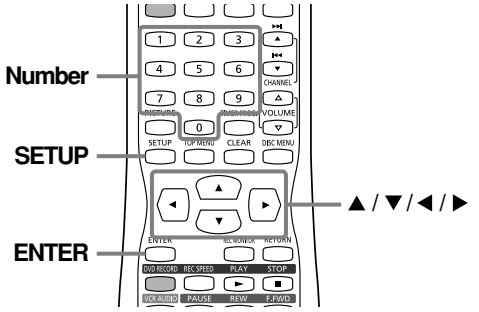
	◀	▶
BRIGHT	to decrease brightness	to increase brightness
CONTRAST	to decrease contrast	to increase contrast
COLOR	to pale	to brilliant
TINT	to purple	to green
SHARPNESS	to soft	to clear

The adjustments you can make are as follows:



NOTE:
• In the above tep , the picture adju tment di play will di appear automatically in about 5 econd if you do not pre any button .

Setting V-CHIP



V-CHIP enables parents to prevent their children from watching inappropriate material on TV.

V-CHIP reads the ratings for programming (except for news and sports programs, unedited movies on premium cable channels, and Emergency Broadcast System signals), then denies access to programming if the program's rating meets or exceeds the limitations you select. In this case, a "PROTECTED PROGRAM by..." message appears on the TV screen.

To block certain ratings, follow the steps below.

NOTE:

- *Programming may be rated by the Motion Picture A ociation of America (MPAA) or according to the Televi ion Parental Guideline . In order to block any inappropriate programming, et your limit in both place (MPAA RATING and TV RATING).*
- *You cannot acce the menu when the "PROTECTED PROGRAM by..." me age appear . In thi ca e, change to an unblocked channel, then pre **SETUP** button.*

Setting MPAA Rating

1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

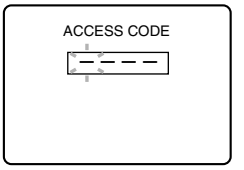
SETUP menu will appear.

3 Select "Display" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Display menu will appear.

4 Select "V-CHIP Setup" using ▲/▼ buttons, then press **ENTER** button.

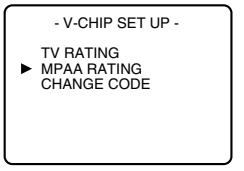
"ACCESS CODE" screen will appear.



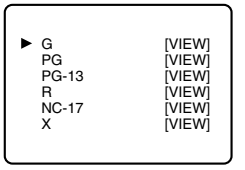
5 Enter the 4-digit access code using **Number** buttons.

The default access code is "0000". If you have not set a personal access code, enter "0000".

6 Select "MPAA RATING" using ▲/▼ buttons, then press **ENTER** button.



7 Select the desired limitation using ▲/▼ buttons.



Then press **ENTER** button to select [BLOCK] or [VIEW].

NOTE:

- *When you elect a rating category and change it to [BLOCK], all higher rating will change to [BLOCK] automatically. Al o, the lower rating will change to [VIEW] automatically.*
- *When you turn "G" to [BLOCK] or [VIEW], all rating will change to [BLOCK] or [VIEW] automatically.*

8 Press **SETUP** button to exit.

Rating Category Explanations

• G:	General Audience
• PG:	Parental Guidance suggested.
• PG-13:	Unsuitable for children under 13
• R:	Restricted; under 17 requires accompanying parent or adult guardian
• NC-17:	No one under 17 admitted
• X:	Mature audience only

Setting TV Rating

1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◄/► buttons, then press **ENTER** button.

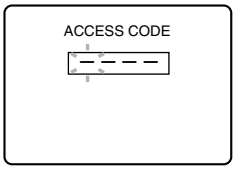
SETUP menu will appear.

3 Select "Display" using ▲/▼/◄/► buttons, then press **ENTER** button.

Display menu will appear.

4 Select "V-CHIP Setup" using ▲/▼ buttons, then press **ENTER** button.

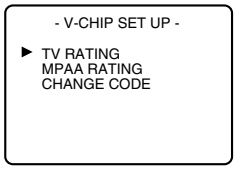
"ACCESS CODE" screen will appear.



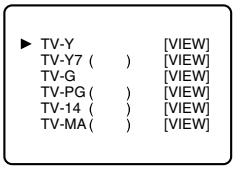
5 Enter the 4-digit access code using **Number** buttons.

The default access code is "0000". If you have not set a personal access code, enter "0000".

6 Select "TV RATING" using ▲/▼ buttons, then press **ENTER** button.



7 Select the desired limitation using ▲/▼ buttons.



Then press **ENTER** button to select [BLOCK] or [VIEW].

NOTE:

- *Refer to the next section, "Setting V-CHIP Sub Rating" for the detail about the sub-rating menu of TV-Y7, TV-PG, TV-14 or TV-MA.*
- *When you select a rating category and change it to [BLOCK], all higher rating will change to [BLOCK] automatically. Also, the lower rating will change to [VIEW] automatically.*
- *The sub rating that are set to [BLOCK] appear next to the rating category in TV RATING menu.*
- *When you turn "TV-Y" to [BLOCK] or [VIEW], all rating will change to [BLOCK] or [VIEW] automatically.*

8 Press **SETUP** button to exit.

Rating Category Explanations

• TV-Y:	Appropriate for all children
• TV-Y7:	Appropriate for children seven and older
• TV-G:	General Audience
• TV-PG:	Parental Guidance suggested.
• TV-14:	Unsuitable for children under 14
• TV-MA:	Mature audience only

Setting V-CHIP Sub Ratings

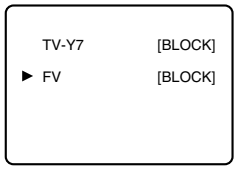
When you select TV-Y7, TV-PG, TV-14 or TV-MA and press **ENTER** button, the sub-rating menu will appear.

If you select the rating category (example: TV-PG) and change it to [BLOCK] or [VIEW], the sub-ratings (example: V for Violence) will change to [BLOCK] or [VIEW] automatically.

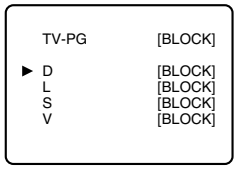
You can set the sub-ratings to [BLOCK] or [VIEW] individually when the rating category is set to [BLOCK]. To set the sub-ratings individually, follow the procedure below.

NOTE:

- ***When you select TV-Y7:***
  Select "FV" (Fantasy Violence) using ▲/▼ button.

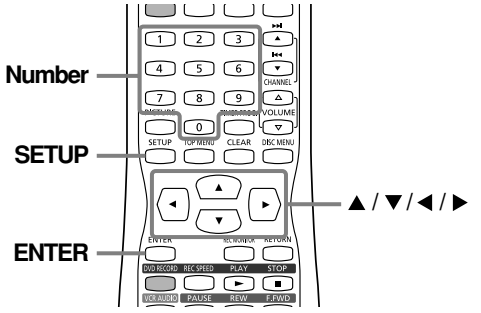


  *Then, press **ENTER** button to select [BLOCK] or [VIEW]. Press **SETUP** button to exit.*
- ***When you select TV-PG, TV-14 or TV-MA:***
  Select "D" (Suggestive Dialog), "L" (Coarse Language), "S" (Sexual Situation) or "V" (Violence) using ▲/▼ button.



  *Then, press **ENTER** button to select [BLOCK] or [VIEW]. Press **SETUP** button to exit.*
- *When you select TV-MA, "D" will not appear.*

Setting V-CHIP Access Code



To change the access code, follow the procedure below.

1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

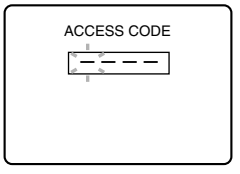
SETUP menu will appear.

3 Select "Display" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Display menu will appear.

4 Select "V-CHIP Setup" using ▲/▼ buttons, then press **ENTER** button.

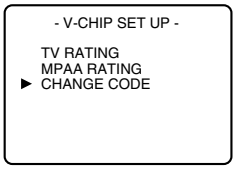
"ACCESS CODE" screen will appear.



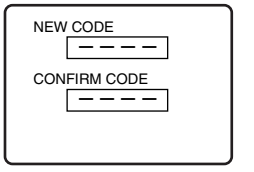
5 Enter the 4-digit access code using **Number** buttons.

The default access code is "0000". If you have not set a personal access code, enter "0000".

6 Select "CHANGE CODE" using ▲/▼ buttons, then press **ENTER** button.



The following screen will appear.



7 Enter the desired access code in NEW CODE using **Number** buttons. Then, enter the same code in CONFIRM CODE. Your new access code is set. The display returns to "V-CHIP SET UP" menu.

NOTE:

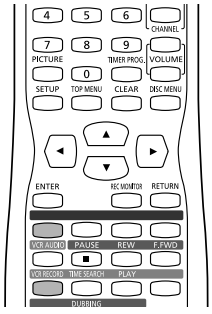
- *If the code in CONFIRM CODE doe not match the code in NEW CODE, repeat tep [7], making ure you enter exactly the ame new code in CONFIRM CODE.*
- *If a power failure occur , the acce code return to the default acce code, "0000".*
- *If you connect the power cord to an AC outlet that i con-trolled by a wall witch, the acce code will be era ed every time you turn off the power at the wall witch. The acce code return to the default acce code.*

8 Press **SETUP** button to exit.

⚠If You Forget Your Access Code

Return the access code to the default code, "0000". To restore "0000" as the personal access code, unplug the TV's power cord for 10 seconds, then plug it in again.

Selecting Closed Caption



You may view specially labeled (cc) TV programs, movies, news, prerecorded tapes, etc. with either dialogue captions or text added to the display.

1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◄/► buttons, then press **ENTER** button.

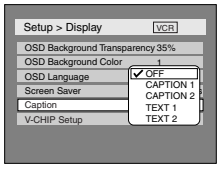
SETUP menu will appear.

3 Select "Display" using ▲/▼/◄/► buttons, then press **ENTER** button.

Display menu will appear.

4 Select "Caption" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



5 Select a desired option using ▲/▼ buttons, then press **ENTER** button.

Select “OFF” to cancel the closed caption system.

6 Press **SETUP** button to exit.

NOTE:

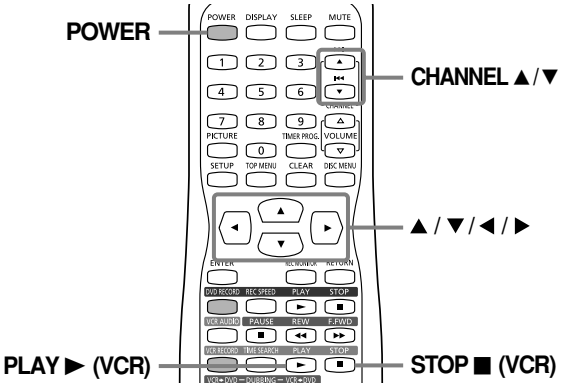
• If the TV/VCR/DVD di play a black box on the TV creen, thi mean that the TV/VCR/DVD i et to the TEXT mode. To clear creen, elect “CAPTION 1”, “CAPTION 2” or “OFF”.

OPERATING VCR

VCR FUNCTIONS

Playback

VCR



1 Press **POWER** button on the remote control or the main unit.

2 Insert a prerecorded tape, then press **PLAY ► (VCR)** button to begin playback.

NOTE:

- *When a tape without record tab i in erted, the unit will tart playback automatically.*
- *Tracking will be automatically adju ted upon playback. To adju t the tracking manually, pre the **CHANNEL** ▲/▼ button on the main unit or **CHANNEL** ▲/▼ button on the remote control.*

3 Press **STOP ■ (VCR)** button to stop playback.

4 Press ■ **STOP/▲ EJECT** button on the main unit to eject the tape.

Recording

Normal Recording

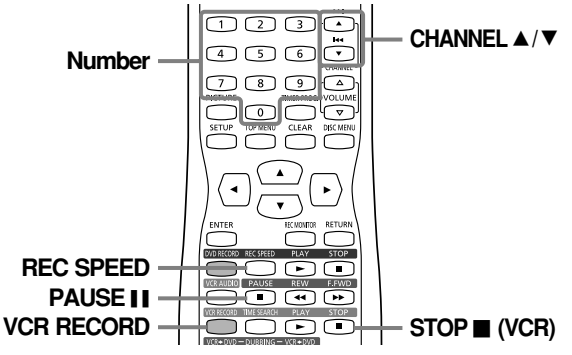
VCR

Before recording, make sure:

- You can ONLY watch the same TV program that is being recorded.
- Stereo or SAP is selected (page 17).
- The desired channel should be selected by pressing the **Number** buttons on the remote control or **CHANNEL** ▲/▼ buttons on the main unit.
- A tape with a record tab should be loaded inside the unit.
- The desired recording speed should be selected in SP (standard play) or SLP (super long play) mode by pressing **REC SPEED** button twice on the remote control. Use ▲/▼ buttons to change the recording speed.
- Refer to page 58 for instructions on timer recording.

Recording speed:

Tape speed / Type of tape	Recording/Playback Time T60	T120	T160
SP mode	1hour	2hours	2-2/3hours
SLP mode	3hours	6hours	8hours



1 Press **VCR RECORD** button to begin the recording.

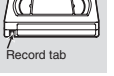
To temporarily stop recording, press **PAUSE ❚❚** button. Press **VCR RECORD** button to resume the recording. When 5 minutes have passed since the unit entered Pause mode, the recording will automatically stop.

2 Press **STOP ■ (VCR)** button when the recording is completed.

⚠NOTE

Accidental erasure prevention

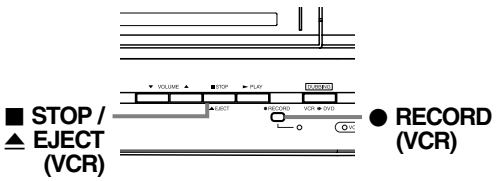
To prevent accidental recording on a recorded cassette, remove its record tab. To record on it later, cover the hole with cellophane tape.



One-Touch Timer Recording

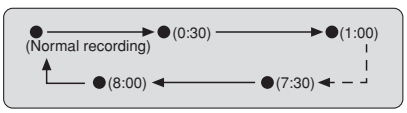
VCR

This feature allows you to set the recording length simply by pressing ● **RECORD (VCR)** button on the main unit.



1 During normal recording, press ● **RECORD (VCR)** button on the main unit to begin one-touch timer recording.

You can select a fixed recording time by pressing the ● **RECORD (VCR)** button on the main unit repeatedly.



When one-touch timer recording finishes, the unit will turn off automatically.

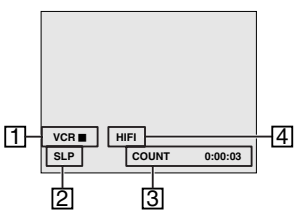
To cancel the one-touch timer recording within the specified time, press **STOP ■ (VCR)** button.

NOTE:

• If One-Touch Timer Recording fini he in VCR during playback or Record mode in DVD, the VCR will be in Stop mode and the DVD keep the current mode.

Guide to Displays

Press **DISPLAY** button repeatedly to bring up the display for VCR status.

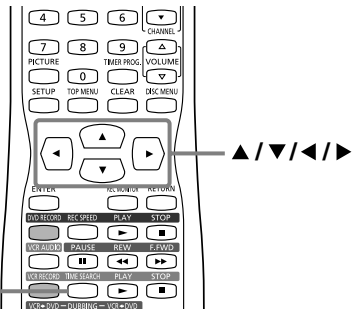


1. Status of the current tape appears for 5 seconds
2. A recording speed appears for 5 seconds
3. Indicates a Tape Counter
4. Audio status of the played tape

Time Search

VCR

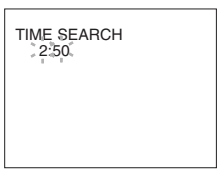
This feature allows you to go to a specific point on a tape by entering the exact amount of time you wish to skip.



1 Press **TIME SEARCH** button.

Time search menu will appear.

2 Enter your desired time to skip using ▲/▼ buttons.



3 Press ◀/▶ buttons to start time search.

⚠Forward or Reverse

If you want to move a tape forward, press ▶ button.

If you want to move a tape backward, press ◀ button.

After time search, the unit will play the tape automatically.

NOTE:

• Time Search function i not available during recording.

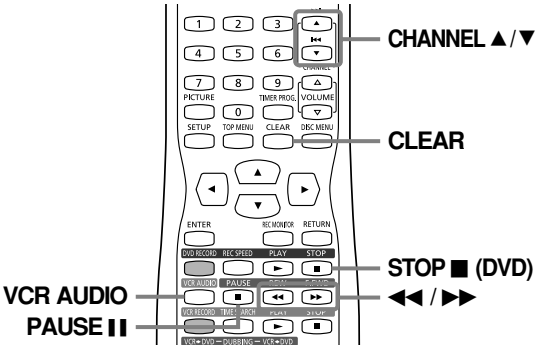
*• To top the time earch, pre **STOP ■ (VCR)** button at tep [3].*

*• To exit the time earch menu, pre **RETURN** button at tep [2].*

• If a tape reache to the end during the earch, thi unit will cancel the earch and rewind the tape.

Other Functions

VCR



To cue or review picture during playback (Picture Search):

Press ▶▶ or ◀◀ buttons during playback.

Press it again and the unit will search in super high speed. (in the SLP mode only)

To freeze the picture on TV screen during playback (Still mode):

Press **PAUSE ❚❚** button. Each time you press the button, the picture will move forward by one frame.

If the picture begins to vibrate vertically during the still mode, stabilize the picture by pressing the **CHANNEL ▲/▼** buttons.

Counter Reset:

Press **CLEAR** button. The counter appears on the TV screen. Press **CLEAR** button again to reset.

To playback in slow motion:

Press **PAUSE ❚❚** button during playback, then press ▶▶ button. Playback in slow motion will start.

If noise bars appear on the TV screen, you can reduce them by pressing **CHANNEL ▲/▼** buttons.

NOTE:
- *Still/Slow/Pau e mode will be automatically cancelled in 5 minute to prevent damage to the tape and the video head.*
- *To return to playback from the Picture Search/Still/Slow mode, pre* ***PLAY ▶ (VCR)*** *button.*

When you playback a tape recorded in Hi-Fi stereo:

Press **VCR AUDIO** button on the remote control to select Hi-Fi or MONO for playback sound mode.

- When you want to enjoy the sound in stereo, select "HIFI".
- When you want to enjoy the sound in monaural, select "MONO".

Your Selection / Type of recorded tape	HIFI		MONO
	L-channel	R-channel	
non Hi-Fi tapes	Monaural	Monaural	Monaural
Hi-Fi tapes recorded in Hi-Fi stereo	L	R	L+R
Hi-Fi tapes recorded main audio program	Main audio program	Main audio program	Main audio program
Hi-Fi tapes recorded second audio program	Second audio program	Second audio program	Second audio program

Auto Rewind-Eject

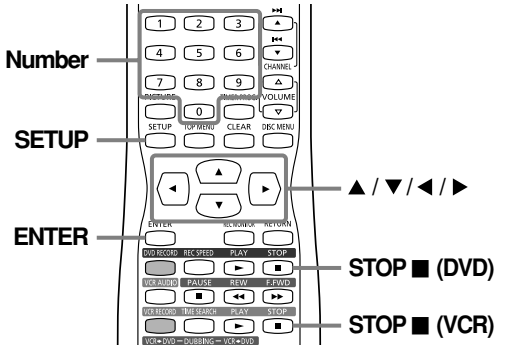
VCR

- When the end of a tape is reached during recording, playback, or fast-forward, the tape will automatically rewind to the beginning. After rewinding finishes, the TV/VCR/DVD will eject the tape.
- The tape will not auto-rewind during timer recording or One-Touch Timer Recording.

Language Setting

NOTE:

• Only the language upported by the di c can be elected.



1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

SETUP menu will appear.

3 Select "Playback" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Option window will appear.

4 Select a desired item using ▲/▼ buttons, then press **ENTER** button.

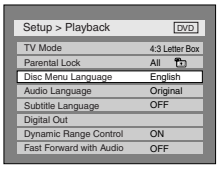
NOTE:

• Audio Language etting may not be available to ome di c .

• You can change or witch off the ubtitle on a DVD di c al o from the di c menu if it i available.

Disc Menu Language (Default : English)

Set the language for Disc Menu.



• Select a setting using ▲/▼ buttons, then press **ENTER** button.

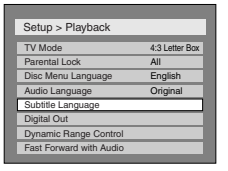
Your setting will be activated.

Audio Language (Default : Original)

Set the Audio language.

Subtitle Language (Default : OFF)

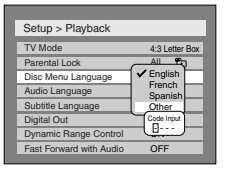
Set the subtitle language.



• Select a setting using ▲/▼ buttons, then press **ENTER** button.

Your setting will be activated.

If "Other" is selected, press 4-digit code using **Number** buttons.



• When you finish entering the code, press **ENTER** button. Refer to the language code table on page 78.

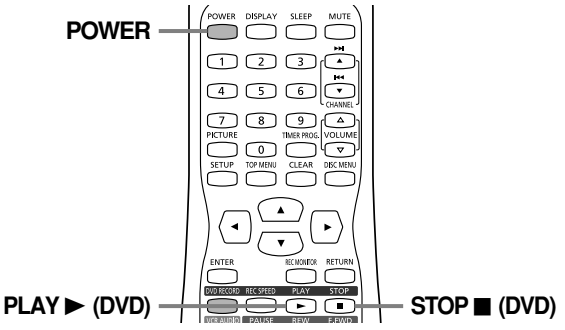
5 Press **SETUP** button to exit SETUP menu.

Basic Playback

Playback

DVD-RW (Video) DVD-RW (VR)

DVD-V **CD**



1 Press **POWER** button.

2 Press ▲ **OPEN/CLOSE** button on the main unit to open the disc tray.

The disc tray will open.

3 Place the disc onto the disc tray with its label facing up and make sure to align the disc to the disc tray guide.

4 Press **PLAY ► (DVD)** button to start playing.

Playback will start.

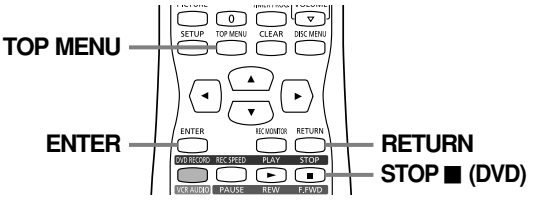
- If you are playing a DVD-Video disc, a menu may appear.
  Refer to page 35 for details about a disc menu.

5 Press **STOP ■ (DVD)** button to stop playing.

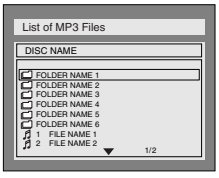
NOTE:

• Some di c may tart playing automatically.

MP3



1 In stop mode, press **TOP MENU** button to bring up the MP3 menu.



To exit the menu, press **TOP MENU** button again.

NOTE:

*• If you pre ▲ **OPEN/CLOSE** button to clo e the di c tray, the automatic playback will not tart, but MP3 menu will appear.*

2 Press ▲/▼ buttons to select a desired folder (group) or track, then press **ENTER** button.

When selecting track:

Playback will start.

When selecting the folder:

The files in the folder will appear.

Press ▲ or ▼ button to select the track or folder you want, then press **ENTER** button.

- Press ◄ button or **RETURN** button to go to the previous hierarchy.
- Press **STOP ■ (DVD)** button to return to the first item.

Hints for MP3 files:

- Folders are known as Groups, files are known as Tracks.
- Folders are accompanied by 🗀 icon.
- MP3 files are accompanied by ♫ icon.
  Playback will start from the selected track and go to the next one in turn.
- The system can recognize up to 255 groups (or folders) and up to 255 tracks.
- The name of the group and track can be displayed in up to 32 characters. Unrecognizable characters will be replaced with asterisks.
- If the folder includes no files, "No Files" will be displayed.
- The audio source of MP3 files cannot be recorded as digital sound by an MD or DAT deck.
- Files whole extension other than ".mp3 (MP3)" will not be listed in the MP3 menu.
- Some unplayable folders or tracks may be listed in the MP3 menu due to the recording status.

This unit recommends the files recorded under the following circumstances:

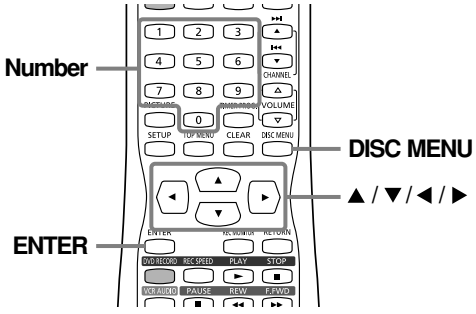
- Sampling frequency: 44.1kHz or 48kHz.
- Constant bit rate: 112kbps - 320kbps.

Playback with Disc Menu

DVD-V

A DVD disc contains a disc menu that describes the contents or allows you to customize the playback. For example, the menu may offer choices for subtitle languages, special features, or chapter selection.

Some disc menus are automatically displayed when you start playback, others only appear when you press **DISC MENU** button.



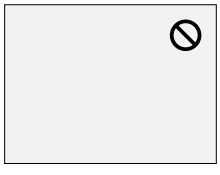
1 Press **DISC MENU** button.

The DVD main menu will appear.

NOTE:

• Menu vary among di c . Refer to the information accompanying the di c for detail .

If the feature is not available, ⃠ may appear on the TV screen.



2 Select an item using ▲/▼/◀/▶ buttons, then press **ENTER** button to confirm.

Continue this step to set up all the features you want or to start playing the disc from the menu.

DISC MENU button:

Displays a DVD disc menu which varies with the disc and may be the same as the 'Title menu.'

▲/▼/◀/▶ buttons:

Moves the cursor on the screen.

ENTER button:

Selects the currently highlighted menu option.

Number buttons:

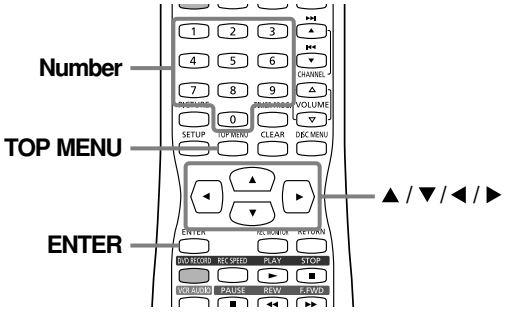
Selects a numbered menu option (only for some discs). **ENTER** button should be pressed after pressing **Number** buttons.

3 Press **DISC MENU** button to exit the menu.

Playback with Title Menu

DVD-V

Some DVDs have a title menu, which lists the titles available on them. It helps you to start playback at a specific title.



1 Press **TOP MENU** button.

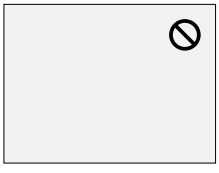
The title menu will appear.

NOTE:

*• The **TOP MENU** button will not alway be active with all DVD .*

• Menu vary among di c . Refer to the information accompanying the di c for detail .

If the feature is not available, ⃠ may appear on the TV screen.



2 Select a title to play using the ▲/▼/◀/▶ buttons, then press **ENTER** button.

Playback will begin at the title you selected.

TOP MENU button:

Displays the 'Title menu' of a DVD disc that varies with the disc.

▲/▼/◀/▶ buttons:

Moves the cursor on the screen.

ENTER button:

Selects the current highlighted menu option.

Number buttons:

Selects a numbered menu option (only for some discs). **ENTER** button should be pressed after pressing **Number** buttons.

3 Press **TOP MENU** button to exit the title menu.

Special Playback

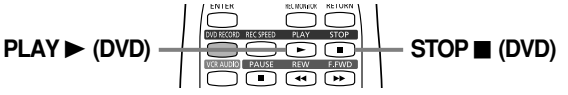
Resume

DVD-V DVD-R DVD-RW (Video)
DVD-RW (VR) CD MP3

You can resume play from where you stopped playing the disc last.

NOTE:

• For MP3 file , playback will re ume from the beginning of the track at which playback wa topped.



1 During playback, press **STOP ■ (DVD)** button.

The resume message will appear.

2 Press **PLAY ► (DVD)** button.

In a few seconds, playback will resume from the point at which it stopped last. You can resume play at the same point even if you turn off the unit.

To cancel the resume play and start playing the disc from the beginning, press **STOP ■ (DVD)** button again while the playback is stopped.

Pause

DVD-V DVD-R DVD-RW (Video)
DVD-RW (VR) CD MP3

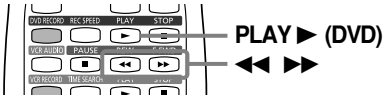
1 During playback, press **PAUSE ❚❚** button.

Playback will pause and sound will be muted.

2 Press **PLAY ► (DVD)** button to resume play.

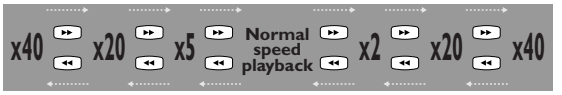
Fast Forward / Fast Reverse

DVD-V DVD-R DVD-RW (Video)
DVD-RW (VR) CD MP3



1 During playback, press ►► or ◄◄ button.

Every time you press ►► or ◄◄ button, approximate speed changes as follows.



For Audio CDs, approximate speed is set at x8 with sound.

For MP3 files, approximate speed is set at x16.

To return to the normal playback, press **PLAY ► (DVD)** button.

NOTE:

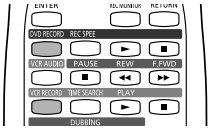
• For DVD di c , the ound will be output during playback in fa t forward of x2 only if you et "Fa t Forward with Audio" to "ON" for the "Playback" etting in the SETUP menu.

• Forward/rever e peed will be indicated with icon a follow .

Forward (Approx. Speed)	*Rever e (Approx. Speed)*
x2 : ►►	*x5 :* ►◄
x20: ►►►	*x20:* ►◄◄
x40: ►►►►	*x40:* ►◄◄◄

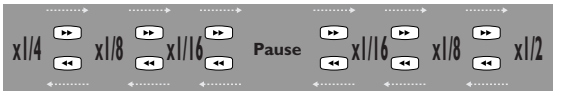
Slow Forward / Slow Reverse

DVD-V DVD-R DVD-RW (Video) DVD-RW (VR)



1 During playback, press **PAUSE ❚❚** button, then press ►► or ◄◄ button.

Every time you press ►► or ◄◄ button, approximate speed will be changed as follows.



To return to the normal playback, press **PLAY ► (DVD)** button.

NOTE:

• The ound will remain mute.

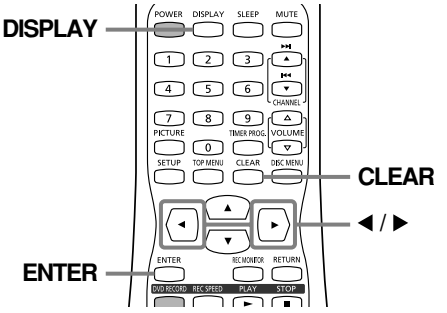
• Forward/rever e peed will be indicated with icon a follow .

Forward (Approx. Speed)	*Rever e (Approx. Speed)*
x1/16: ❚►	*x1/16:* ❚◄
x1/8 : ❚►►	*x1/8 :* ❚◄◄
x1/2 : ❚►►►	*x1/4 :* ❚◄◄◄

Setting Marker

DVD-V DVD-R DVD-RW (Video) DVD-RW (VR) CD

This feature allows you to assign a specific point on a disc to be returned to later.



1 During playback, press **DISPLAY** button repeatedly until the DVD status display menu appears.

2 Select icon using ◄/► buttons, then press **ENTER** button.

Marker setup menu will appear.

Screen for DVD: Screen for CD:

3 Select a desired marker number using ◄/► buttons.

When it reaches the desired point, press **ENTER** button.

4 To return to the marker later, select the desired marker number using ◄/► buttons, then press **ENTER** button.

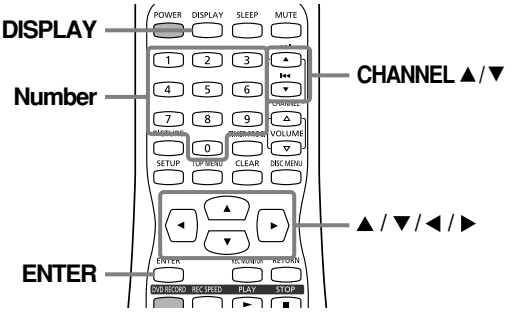
NOTE: Marker

- *You can mark up to 6 point .*
- *To clear a marker, elect the marker number to be cleared, then pre* ***CLEAR*** *button.*
- *All marker will be era ed by the following operation:*
  Opening the di c tray.
  Turning off the power.
  Recording to a recordable di c.
  Changing the mode between Original and Playli t.(VR mode)
  Editing the di c.

Search

DVD-V DVD-R DVD-RW (Video) DVD-RW (VR)

Title/Chapter Search



Using CHANNEL ▲▼ buttons

1 During playback, press **CHANNEL** ▲ button to skip the current title or chapter and move to the next.

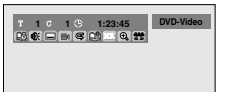
The title or chapter will move forward by one title at a time.

To go back to the previous title or chapter, press **CHANNEL** ▼ button. The title or chapter will move backward by one title at a time.

Only press **CHANNEL** ▼ button once to go back to the top of the current title.

Using DISPLAY button

1 During playback, press **DISPLAY** button repeatedly until the DVD status display menu appears.



2 Select icon using ◄/► buttons, then press **ENTER** button.

'T' for title will be highlighted.

Title:

Enter a desired title number to search using ▲/▼ buttons or **Number** buttons, then press **ENTER** button. Title search will start.

Chapter:

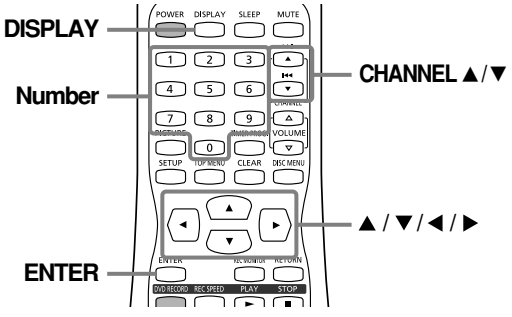
To move to 'C' for chapter, press ► button.

Enter a desired chapter number to search using ▲/▼ buttons or **Number** buttons, then press **ENTER** button.

Chapter search will start.

Track Search

CD MP3



Using CHANNEL ▲▼ buttons

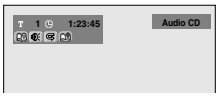
1 During playback, press **CHANNEL** ▲ button to skip the current track and move to the next.

The track will move forward one at a time.

To go back to the previous track, press **CHANNEL** ▼ button. The track will move backward one track at a time.

Using DISPLAY button

1 During playback, press **DISPLAY** button repeatedly until the DVD status display menu appears.



2 Select icon using ◀/▶ buttons, then press **ENTER** button.

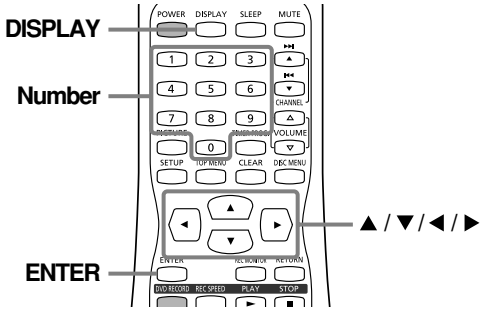
'T' for track will be highlighted.

3 Enter a desired track number to search using ▲/▼ buttons or **Number** buttons, then press **ENTER** button.

Track search will start.

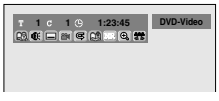
Time Search

DVD-V DVD-R DVD-RW (Video) DVD-RW (VR) CD



1 During playback, press **DISPLAY** button repeatedly until the DVD status display menu appears.

Screen for DVD:



Screen for CD:

2 Select icon using ◀/▶ buttons, then press **ENTER** button.

'T' for title or track will be highlighted.

To move to the (clock) icon, press ▶ button.

3 Enter a desired time to search using ▲/▼ buttons or **Number** buttons, then press **ENTER** button.

Time search will start.

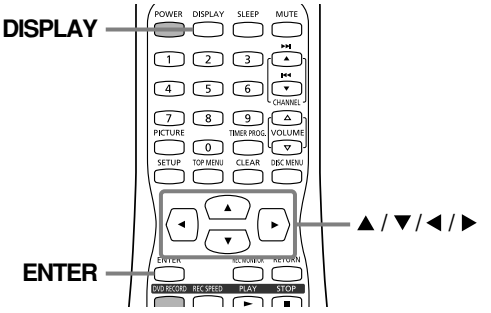
NOTE:

• Time earch function i available only in the ame track or title.

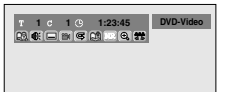
Repeat/Random/Program Play

Repeat Play

DVD-V DVD-R DVD-RW (Video)
DVD-RW (VR) CD MP3



1 During playback, press **DISPLAY** button repeatedly until the DVD status display menu appears.



2 Select icon using ◀/▶ buttons, then press **ENTER** button.

Repeat menu will appear.

NOTE:

• To cancel the repeat playback, elect OFF.

3 Select a desired option to repeat using ▲/▼ buttons, then press **ENTER** button.

Title: DVD only

The current title will be played repeatedly.

Chapter: DVD only

The current chapter will be played repeatedly.

All: CD, MP3 and DVD-RW (VR mode only)

The current disc will be played repeatedly.

A-B:

The A-B point will be played repeatedly.

When pressing **ENTER** button while A-B is highlighted, the starting point (A) will be decided.

Press **ENTER** button again to select the ending point (B).

NOTE:

• The A-B Repeat playback can only be et within the current title (for DVD), or current track (for Audio CD).

Track: CD, MP3 only

The current track will be played repeatedly.

Group: MP3 only

The current group will be played repeatedly.

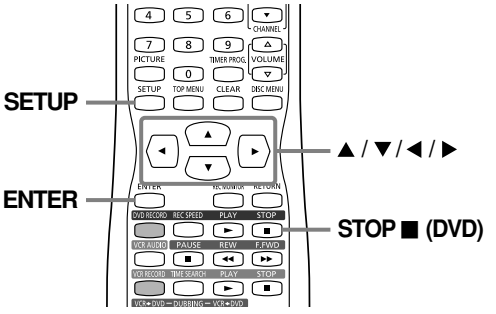
NOTE:

• You cannot elect "Group" during the random playback of MP3 file .

Random Play

CD MP3

You can play tracks on a disc randomly instead of playing it in the recorded sequence.



1 In the stop mode, press **SETUP** button to display SETUP/CD menu.

SETUP/CD menu will appear.

2 Select "CD" using ◀/▶ buttons, then press **ENTER** button.

CD Playback Mode menu will appear.

3 Select "Random Play" using ▲/▼ buttons, then press **ENTER** button.

Random playback will start.

NOTE:

*• To cancel random playback, pre **STOP ■ (DVD)** button during random playback.*

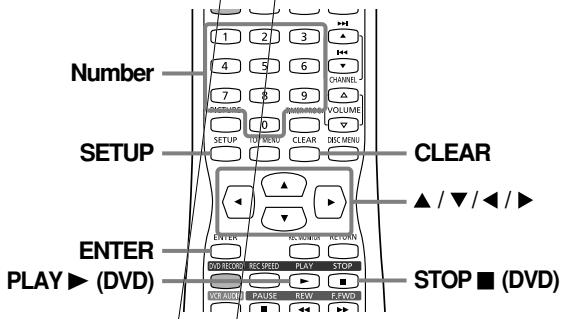
Program Play

CD

You can program tracks on a disc to be played in your desired order.

NOTE:

• You can make program up to 50 track .



1 In the stop mode, press **SETUP** button to display SETUP/CD menu.

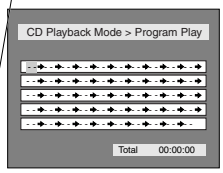
SETUP/CD menu will appear.

2 Select "CD" using ◀/► buttons, then press **ENTER** button.

CD Playback Mode menu will appear.

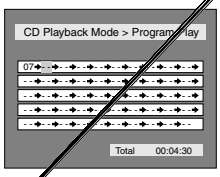
3 Select "Program Play" using ▲/▼ buttons, then press **ENTER** button.

Program Play list will appear.



4 Select a desired track using ▲/▼ buttons, then press **ENTER** button or ► button.

A cursor will move to the next.



NOTE:

*• You may al c elect a de ired track u ing **Number** button .*
*• To era e track you elected, pre **CLEAR** button.*

5 Press **PLAY ► (DVD)** button to start program playback.

Program playback will start according to your program.

NOTE:

*• To cancel program playback, pre **STOP ■ (DVD)** button twice during program playback.*

Selecting AUDIO / VIDEO Menu

You can select an audio or video format, as you prefer depending on the contents of the disc you are playing.

Switching Audio Soundtrack

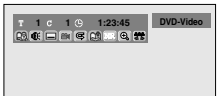
DVD-V **DVD-RW (VR)**

When playing a DVD-Video disc recorded with two or more soundtracks (mostly in different languages), you can switch between them anytime during playback.

NOTE:

*• Some di c will only allow you to change the oundtrack from the di c' menu. Pre **TOP MENU** button or **DISC MENU** button to di play the di c' menu.*
• On DVD-RW di c recorded in VR mode that may have both a main and a ub audio channel, you can witch to main (L), ub audio (R) or a mix of both (L/R).

1 During playback, press **DISPLAY** button repeatedly until the DVD status display menu appears.

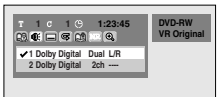


2 Select icon using ◀/► buttons, then press **ENTER** button.

Audio menu will appear.

<DVD-Video>

<DVD-RW VR mode>



3 Select a desired audio soundtrack using ▲/▼ buttons, then press **ENTER** button.

<DVD-Video>

Audio soundtrack will switch.

<DVD-RW VR mode>

You can switch to main (L), sub audio (R) or a mix of both (L/R). In this case, follow the step [4].

4 Select a desired audio channel using ▲/▼ buttons, then press **ENTER** button.

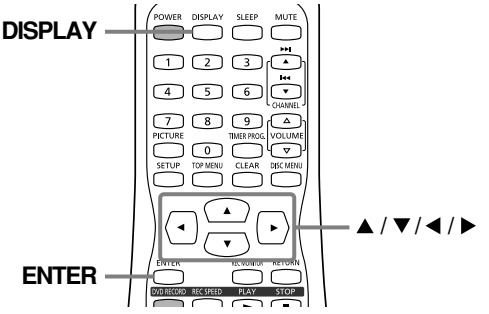
Audio channel will switch.

NOTE:

• Thi unit CANNOT record in both tereo and SAP (Secondary Audio Program) at the ame time.

CD **MP3**

When playing Audio CDs or MP3 files you can switch between stereo, the left channel only or the right channel only.



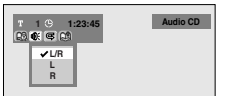
1 During playback, press **DISPLAY** button repeatedly until the DVD status display menu appears.

2 Select icon using ◀/▶ buttons, then press **ENTER** button.

Audio menu will appear.

3 Select a desired audio channel using ▲/▼ buttons, then press **ENTER** button.

Audio channel will change.



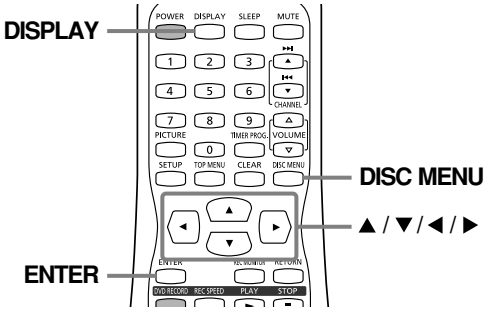
Switching Subtitles

DVD-V **DVD-RW (VR)**

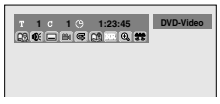
Many DVD Video discs have subtitles in one or more languages. The case usually tells you which subtitle languages are available. You can switch subtitle languages anytime during playback.

NOTE: Top Menu / Disc Menu

- *Some di c allow you to change the ubtitle only from the di c' menu. Pre TOP MENU button or DISC MENU button to di play the di c' menu.*

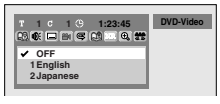


1 During playback, press **DISPLAY** button repeatedly until the DVD status display menu appears.



2 Select icon using ◀/▶ buttons, then press **ENTER** button.

Subtitle menu will appear.



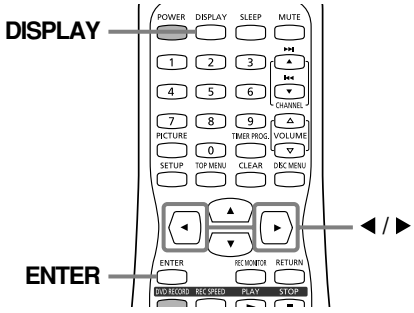
3 Select a desired subtitle language using ▲/▼ buttons, then press **ENTER** button.

Subtitle will be displayed in the selected language.

When selecting "OFF", subtitle will disappear.

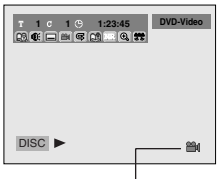
Switching Camera Angles

DVD-V



⚠Some DVD Video discs feature scenes shot from two or more angles, check the case of the DVD for details:
it should be marked with an angle icon if it contains multi-angle scenes.

1 During playback, press **DISPLAY** button repeatedly until the DVD status display menu appears.



Angle icon appears when a switching camera angle is available.

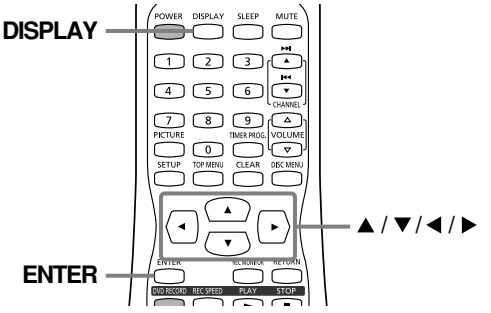
2 Select icon using ◀/▶ buttons, then press **ENTER** button.

Angle will switch each time you press **ENTER** button.

Reducing Block Noise

DVD-V **DVD-R** **DVD-RW (Video)** **DVD-RW (VR)**

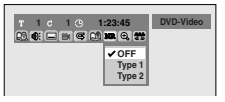
This function reduces noise in the playback picture.



1 During playback, press **DISPLAY** button repeatedly until the DVD status display menu appears.

2 Select NR icon using ◀/▶ buttons, then press **ENTER** button.

NR menu will appear.



3 Select a desired option using ▲/▼ buttons, then press **ENTER** button.

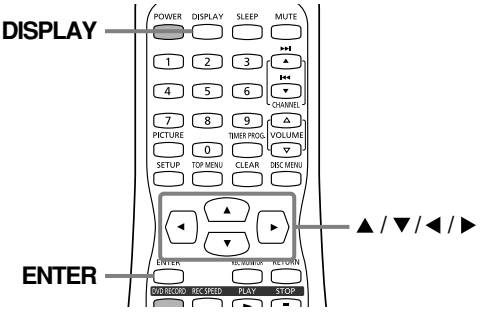
Your setting will be activated.

When playing back discs recorded in long time mode such as SLP or SEP mode, select "Type 1" or "Type 2". ("Type 2" is more effective.) When playing back prerecorded DVD discs with little or no noise, select "OFF".

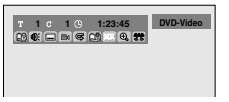
Virtual Surround Setting

DVD-V **DVD-R** **DVD-RW (Video)** **DVD-RW (VR)**

Switching to virtual surround setting allows you to enjoy DVD disc with a surround effect.



1 During playback, press **DISPLAY** button repeatedly until the DVD status display menu appears.



2 Select icon using ◀/▶ buttons, then press **ENTER** button.

Virtual surround menu will appear.

3 Select "ON" using ▲/▼ buttons, then press **ENTER** button.

Virtual surround setting will be activated.

NOTE:

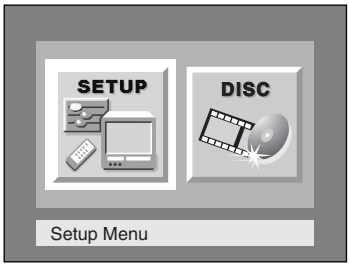
• To turn off virtual surround, select "OFF" in Virtual Surround menu screen.

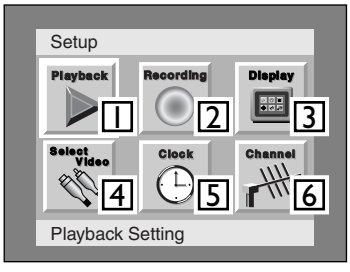
GUIDE TO DISPLAYS ON SCREEN MENU

This unit uses the following types of display for most operations. SETUP/DISC/CD menu, Title List, and DISPLAY, which allows you to change the playing status of disc during play.

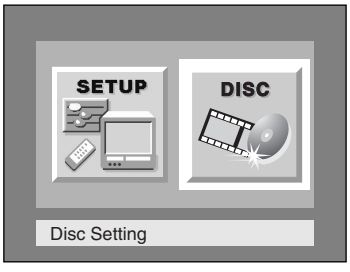
SETUP/DISC/CD menu

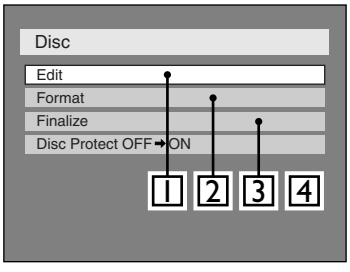
Press **SETUP** button to display the setup main menu, then choose either of SETUP/DISC/CD by pressing ◄/► buttons.Then, press **ENTER** button to display each menu. This provides entries to all main functions of the unit.





1. Playback:
To set up the unit to play discs to your preference.
2. Recording:
To set up the unit to record to discs or VHS tape.
3. Display:
To set up the OSD screen.
4. Select Video:
To choose a line input to record to DVD discs or VHS tapes from other video components.
5. Clock:
To set up the clock.
6. Channel:
To preset the TV channels.





1. Edit:
Turns on a title list, (when a disc with VR mode is inserted, 'Original' or 'PlayList' is available), which shows the recorded titles on the disc.
2. Format:
Allows you to erase all of the recorded content on the disc. The disc will be completely blank.
3. Finalize:
Allows you to finalize a disc recorded titles.
4. Disc Protect (VR mode only) :
Allows you to protect a disc from accidental editing or recording.

1. Random Play:
To set the random CD tracks playback.
2. Program Play (Audio CD only):
To activate the programmed playback of CD tracks.

EASY DVD RECORDING

The following will help you to understand easily how to record to DVD discs.

NOTE:

• Make ure that you have completed connection and batterie hould be in erted in the remote control.

Step 1: Choose a disc type

There are several types of DVD disc recordable to choose from. Choose an applicable type by "DVD disc types" on this page.

This unit can record on the following type of discs only.

DVD R R 4.7 (or) DVD RW

* This unit cannot record on the following discs.
• DVD-R General Ver 2.0 / 8x
• DVD-RW Ver 1.2 / 2-4x CPRM compatible

For example, when you want to record repeatedly on the same disc or when you want to edit the disc after recording, select the rewritable DVD-RW type disc.

When you want to save recordings without any alteration, a non-rewritable DVD-R can be your choice.

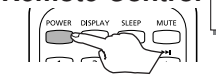
Step 2: Insert a blank disc

1 Turn on the unit

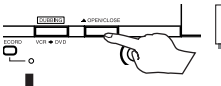
2 Open the disc tray

3 Close the disc tray

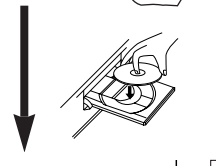
Remote Control

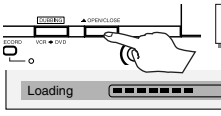


1



2





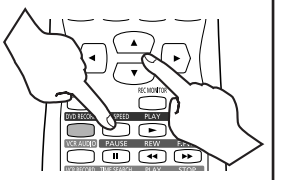
3

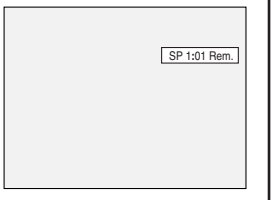
NOTE:

• Thi operation may take a few minute to complete.

Step 3: Select the Recording speed

To select the recording speed, press **REC SPEED** button once, then change the recording speed using ▲/▼ buttons.





DVD disc types

· ☆☆☆ : Most suitable. ☆☆ : Can be used. ☆ : Some functions are limited. — : Cannot be used.

You want to	DVD-RW VR	DVD-RW Video	DVD-R
Record TV programs	☆☆☆	☆☆☆	☆☆
Reuse by deleting unwanted contents	☆☆☆	☆☆	—
Edit recorded contents	☆☆☆	☆	☆
Edit/Record from connected equipment	☆☆☆	☆☆☆	☆☆☆
Copy discs for distribution	☆☆*1	☆☆☆	☆☆☆
Play on other DVD equipment	☆☆*1	☆☆☆	☆☆☆

Features	DVD-RW VR	DVD-RW Video	DVD-R
Recording			
Rewritable?	Yes	Yes	No
Can create chapters at fixed intervals (auto.)	Yes	Yes	Yes
Can create chapters wherever you like (manual)	Yes	No	No
Can record 16:9 size pictures	Yes	Yes	Yes
Can record Copy-Once programs	Yes	No	No
Editing			
Can perform basic edit functions	Yes	Yes	Yes
Can perform advanced edit functions (Playlist edit)	Yes	No	No

*1 DVD-RW (VR mode) can only be played on DVD equipment that is VR compatible.

NOTE:
For details of the above functions and implied restrictions, see the explanations inside the manual.

⚠ Important

Format the disc

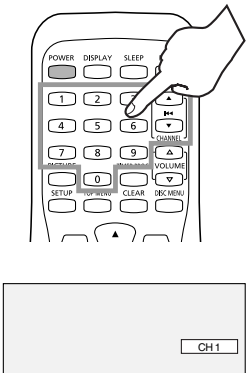
Insert the disc in the unit. Then, format the disc from SETUP menu. Video format (Video mode) or Video recording format (VR mode) will be available depending on the disc type inserted. This is necessary to prepare the disc for recording. Details are on pages 48-49.

* When you format, the entire contents on that disc will be erased.

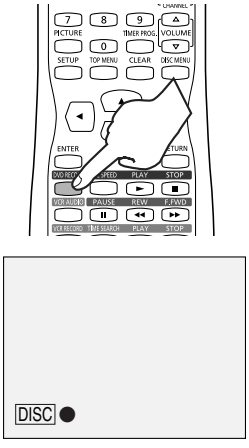
⚠ Finalize the disc

After recording, you will need to finalize the DVD discs recorded in this unit before they can be played in other DVD players. See page 54.

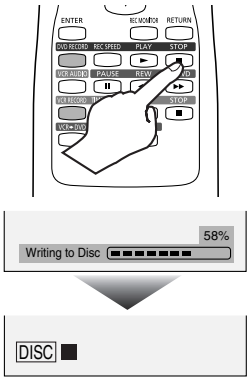
Step 4: Select the desired channel



Step 5: Press DVD RECORD button



Step 6: Stop the Recording

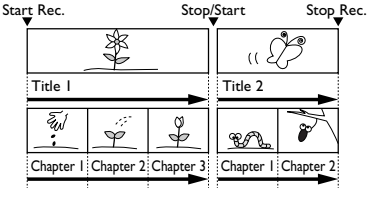


NOTE:

- *Thi operation may take a few minute to complete.*

Playing the recorded contents

You can select the title you want to play from a displayed menu and immediately start to play. Recorded contents are very accessible on a disc, the procedure is really simple as you choose a title on a chapter from the menu screen.



What are titles and chapters?

The contents of DVD disc are generally divided into titles. Titles may be further subdivided into chapters.

Editing the recorded disc

You will find editing discs very easy. This unit offers convenient edit functions, which are possible only with DVD-R/RW discs.

You can edit the following from a Title list.

- **Naming titles**
- **Setting pictures for thumbnails (VR mode)**
- **Setting/clearing chapter markers**
- **Deleting title part or scene (VR mode)**
  Title Delete : This deletes an entire scene permanently from the disc.
  Scene Delete : This allows a user to edit within a specific scene (ex. commercials).

Original and Playlist (VR mode)

You can edit the recordings in Playlist without changing the original recordings. Any Playlist does not take up much disc space.

What "Original" or "Playlist" is for?

Throughout this manual, you will find Original and Playlist to refer to the actual content and the edited version.

- **Original** content refers to what's actually recorded on the disc.
- **Playlist** content refers to the edited version of the disc; how the Original content is to be played.

⚠Finalize the Disc

- This will allow a disc that is recorded on our unit to be played back on a different DVD player without finalization it will not be playable on another player.
- After finalizing a disc if the recording was in video mode, you can not edit any information that is on that disc.
- If you have recorded in VR mode on DVD-RW disc then editing is still permitted after finalizing. See page 54.

RECORDING

About DVD Recording

This unit can record to DVD-R and DVD-RW discs. When recording, you will need to select a recording format between Video mode and VR mode depending on the disc format.The disc format for DVD-R is always "Video format," so a recording format will be "Video mode". On the other hand, when recording to DVD-RW, a recording format will be "Video mode" or "VR mode" because a disc format is available between "Video Recording format" and "Video format" for DVD-RW.

Logo	Attributes
DVD-RW	12cm, single-sided, single layer disc Approx. max. recording time (SEP mode): 600 minutes (4.7GB)
DVD-R	12cm, single-sided, single layer disc Approx. max. recording time (SEP mode): 600 minutes (4.7GB)

* This unit cannot record on the following discs.
•DVD-R General ver 2.0/8x
•DVD-RW ver 1.2/2-4xCPRM compatible.

⚠ Important

Video mode / VR (Video Recording) mode

Video Format

Select the Video Recording Mode to record discs that can played back on most standard DVD players. Video Recording Mode creates discs compatible with most DVD players, but there is no capability to edit the recordings. DVD-R discs can only be formatted in the Video mode, DVD-RW discs can be formatted in the Video mode or the VR mode.

VR Format

Select the VR Recording Mode to record discs that can be edited, but can be played back only on DVD recorders and players that support the VR mode with DVD-RW discs. DVD-R discs cannot be formatted in the VR mode, only DVD-RW discs can be formatted in the VR mode.

DVD players with RW COMPATIBLE can play DVD-RW recorded in VR mode.

NOTE:

- *Thi unit cannot record CD-R or CD-RW di c .*
- *DVD-R/RW and CD-R/RW di c recorded on a per onal computer or a DVD or CD recorder may not be played in thi unit if the di c i dam-aged or dirty or if there i dirt of conden ation on the unit len .*
- *Even if you record a di c u ing a per onal computer in a compatible format, you may not play it in thi unit due to the application oftware u ed to create the di c. (Check with the oftware di tributor for more detailed information.)*
- *Di c recorded in Video mode on thi unit cannot be record-ed additionally u ing other DVD recorder .*

Disc type	Disc format	Functions
DVD-RW	Video mode DVD-RW (Video)	Playing, limited recording, limited editing
	VR mode DVD-RW (VR)	Playing, recording, Original/Playlist editing
DVD-R	Video mode DVD-R	Playing, limited recording, limited editing

Recording Speed

You can select a recording speed among 6 options. The recording time depends on the recording speed you select as follows:

Recording speed	Recording time *	Video/Sound Quality
XP (1H)	60 min	☆☆☆☆☆☆ (Highest)
SP (2H)	120 min	☆☆☆☆☆
LP (4H)	240 min	☆☆☆☆
EP (6H)	360 min	☆☆☆
SLP (8H)	480 min	☆☆
SEP (10H)	600 min	☆ (Lowest)

* This table is designed for a new single-sided 12cm disc as the standard. The recording time shown above may differ from actual recording time.
* The audio and video quality is poorer as the recording time becomes longer.

Restrictions

You cannot record copy-protected video using this unit. Copy-protected video includes DVD-Video discs and some satellite broadcasts. If copy-protected material is encountered during a recording, the unit will pause or stop automatically and an error message will be displayed on-screen. "Copy-once only" video can be recorded only using a DVD-RW disc in VR mode with CPRM (see below). When recording a TV broadcast or through an external input, copy control information can be displayed on screen.

What is "CPRM"?

CPRM is a copy protection system with scramble system regarding the recording of "copy once" broadcast programs. CPRM stands for Content Protection for Recordable Media. This unit is CPRM compatible, which means that you can record copy-once broadcast programs, but you cannot make a copy of those recordings. CPRM recordings can only be made on DVD-RW discs formatted in VR mode, and CPRM recordings can only be played on players that are specifically compatible with CPRM.

Copy Control

Some satellite broadcasts include copy-protected contents. Refer to the following condition on copy control.

Disc type / format		Copy-free	Copy-once	Copy-prohibited
DVD-RW VR	ver.1.1	☆	—	—
	ver.1.1 CPRM compatible	☆	☆	—
DVD-RW Video	ver.1.1	☆	—	—
	ver.1.1 CPRM compatible	☆	—	—
DVD-R	ver.2.0	☆	—	—

☆ Recordable
— Not Recordable

Formatting

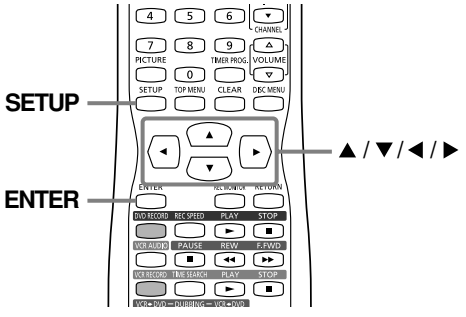
Format Setting

DVD-RW (Video) **DVD-RW (VR)**

When inserting a blank disc, the unit starts to initialize the blank disc. After that, you can record to the disc in the recording format selected in SETUP menu. You can set a specified time for chapter marks.

NOTE:

- *The recording format setting is available only for DVD-RW disc. You cannot change the recording format on a DVD-R disc. DVD-R disc will always be in Video mode.*
- *You cannot mix two formats on one DVD-RW disc. When you load a disc once recorded before, the recording format cannot be changed even if you change it in SETUP menu.*
- *When inserting a blank DVD+R or DVD+RW disc, the error message ("Disc Error") will appear. This unit is not compatible with a DVD+R/RW disc.*
- *PLAYLIST will be created automatically when recording on DVD-RW in VR mode.*



1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

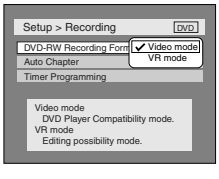
SETUP menu will appear.

3 Select "Recording" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Recording menu will appear.

4 Select "DVD-RW Recording Format" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



Video mode has been selected as the default.

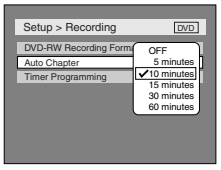
Continue on next page.

5 Select "Video mode" or "VR mode" using ▲/▼ buttons, then press **ENTER** button.

The recording mode will be set.

6 Select "Auto Chapter" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



"10 minutes" has been selected as the default.

7 Select a desired time option using ▲/▼ buttons, then press **ENTER** button.

Chapter marks will be put as you specified.

• The time for chapter marks is not accurate in Video mode.

8 Press **SETUP** button to exit SETUP menu.

⚠NOTE: 2 formats on same disc

You cannot mix both recording format on a single DVD disc.

⚠NOTE: Finalize

You must "Finalize" all recorded discs before they can be played on other DVD players. Without finalization, Video mode discs cannot be played back on other DVD players, and VR mode discs cannot be played back on other VR compatible players. See page 54.

Reformatting

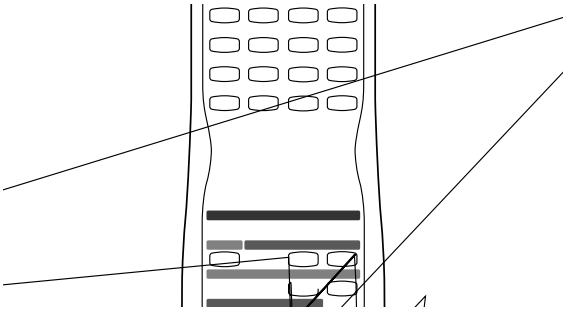
DVD-RW (Video) **DVD-RW (VR)**

If you are using a DVD-RW disc, by default it will be Video mode.

You can change this to VR mode from SETUP menu.

⚠Caution: Erasing - Reformatting

• Reformatting will erase the contents of the disc. Once erased, the material cannot be retrieved.



1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

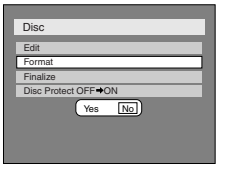
2 Select "DISC" using ◄/► buttons, then press **ENTER** button.

DISC menu will appear.

3 Select "Format" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.

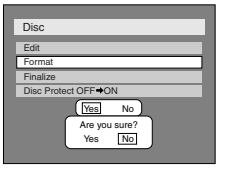
* VR mode only



4 Select "Yes" using ◄/► buttons, then press **ENTER** button.

Option window will appear.

* VR mode only

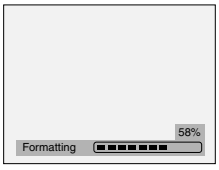


5 Select "Yes" using ◄/► buttons, then press **ENTER** button.

Formatting will start.

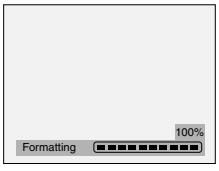
NOTE:

• Select "No" to cancel formatting.



6 Formatting is complete.

100% will be indicated.



NOTE:

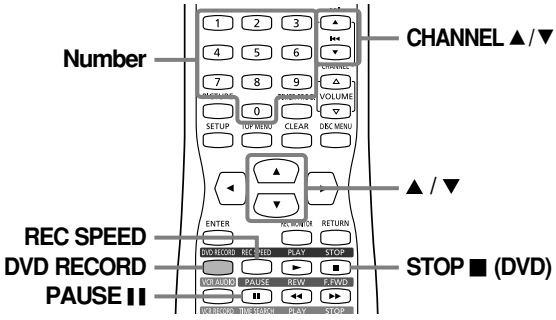
• Thi operation may take a few minute to complete.

Basic Recording

Recording TV Programs

DVD-R **DVD-RW (Video)** **DVD-RW (VR)**

Follow the steps below to record TV programs.

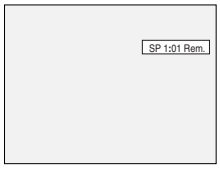


1 Turn on the unit and load a recordable disc.

NOTE:

• Thi operation may take a few minute to complete.

2 Press **REC SPEED** button, then change the recording speed using ▲/▼ buttons.



Refer to "Recording speed" on page 48.

3 Make sure that the recording format is set to the desired mode.

Refer to "Formatting" on pages 49-50.

When a DVD-RW disc is loaded:

Choose Video mode or VR mode from SETUP menu. "Video mode" has been selected as the default. Refer to "Format Setting" on pages 49-50.

When a DVD-R disc is loaded:

DVD-R discs will always be in Video mode.

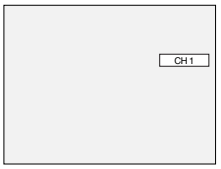
⚠NOTE:

• If the clock ha not been et, the pace for a date and time of title name in the original or playli t will be blank.

• You cannot mix two format on one DVD-RW di c. When you load a di c once recorded before, the recording format cannot be changed even if you change it in SETUP menu.

Continue on next page.

4 Select a desired channel to record using **CHANNEL ▲/▼** buttons or **Number** buttons.

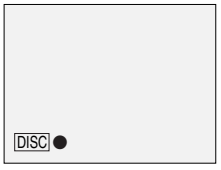


5 Press **DVD RECORD** button to start recording.

NOTE:

• Recording tart immediately and continue until the di c i full or you top recording.

DISC ● mark will be displayed for 5 seconds.



To pause the recording, press **PAUSE ❚❚** button. Press **DVD RECORD** button to restart the recording.

⚠NOTE:

• You cannot change the recording peed during the REC pau e mode.

• You can change a channel during the REC pau e mode.

6 Press **STOP ■ (DVD)** button to stop recording.

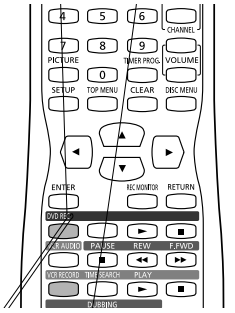
NOTE:

• Thi operation may take a few minute to complete.

Checking the recording picture quality

DVD-R **DVD-RW (Video)** **DVD-RW (VR)**

You can confirm the recording speed you have selected before recording to a DVD disc.

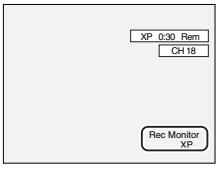


1 While the unit is in STOP or REC with a recordable DVD disc inserted, press **REC MONITOR** button.

2 The TV program will be shown on the screen with the recording speed you have selected. Please confirm this is the speed you wish to record.

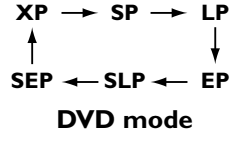
NOTE:

• The recording picture can be confirmed with the Rec monitor function. (See "Recording Speed" on page 48.)



3 To change the recording speed, press **REC SPEED** button, then use **▲/▼** buttons.

The recording speed will change as you press the button as shown.



DVD mode

NOTE:

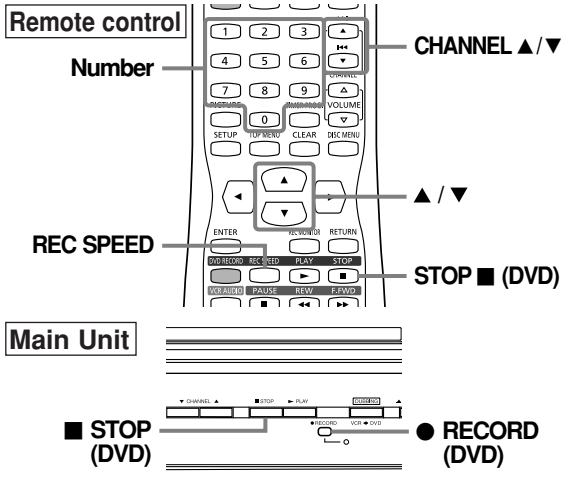
• You cannot change the recording peed during recording.

4 Press **REC MONITOR** button again to exit.

One-Touch Timer Recording

DVD-R **DVD-RW (Video)** **DVD-RW (VR)**

This is a simple way to set the recording time in blocks of 30 minutes. Check that the disc you are recording onto has enough space for the time you set.



1 Turn on the unit and load a recordable disc.

NOTE:

• Thi operation may take a few minute to complete.

2 Press **REC SPEED** button, then change the recording speed using ▲/▼ buttons.

Refer to "Recording speed" on page 48.

3 Make sure that the recording format is set to the desired mode.

Refer to " Format Setting " on pages 49-50.

When a DVD-RW rewritable disc is loaded:

Choose Video mode or VR mode from SETUP menu.

"Video mode" has been selected as the default. Refer to " Format Setting" on pages 49-50.

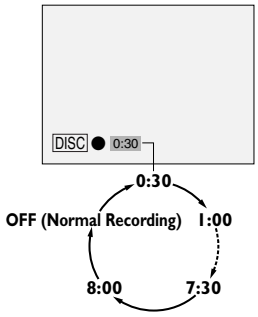
When a DVD-R disc is loaded:

DVD-R discs will always be in Video mode.

4 Select a desired channel to record using **CHANNEL ▲/▼** buttons or **Number** buttons.

5 Press ● **RECORD (DVD)** button on the main unit repeatedly until a desired recording time (30 minutes to 8 hours) appears on the TV screen.

Recording will start.



When the unit reaches the specified time, it will turn off automatically.

NOTE: Automatic Turn Off

• The unit will turn off automatically under the following condition :

1) No pace remained on the di c.

2) When a power failure occur .

• If One-Touch Timer Recording fini he in DVD during playback or in REC mode in VCR, the DVD will be in STOP mode and the VCR keep the current mode.

To cancel the one-touch timer recording within the specified time, press **STOP ■ (DVD)** button.

NOTE:

• Thi operation may take a few minute to complete.

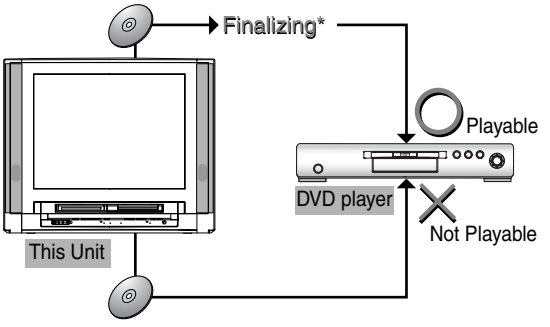
⚠Important

You must "Finalize" all recorded discs before they can be played on other DVD players. Without finalization, Video mode discs cannot be played back on other DVD players, and VR mode discs cannot be played back on other VR compatible players. See page 54.

⚠Finalizing Discs

DVD-R **DVD-RW (Video)** **DVD-RW (VR)**

You must "Finalize" all recorded discs before they can be played on other DVD players. Without finalization, Video mode discs cannot be played back on other DVD players, and VR mode discs cannot be played back on other VR compatible players.



*You cannot finalize discs in other DVD recorders.

Finalizing may take several minutes up to an hour. (A disc recorded in Video mode can take up to 15 minutes. A disc recorded in VR mode can take up to 60 minutes.)

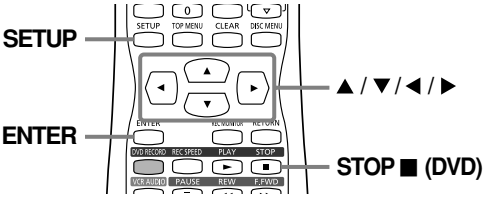
A shorter recording period on the disc will require a longer time period for finalization. Do not unplug the power cord during finalization.

After finalizing:

- Once DVD-R/RW (Video mode) is finalized, you cannot record additionally or edit.
- Even if DVD-RW (VR mode) is finalized, you can record additionally to or edit.
- When DVD-R/RW (Video mode) is finalized, title menu will be created automatically.

To play in other DVD players, finalize discs recorded on this unit with the following condition.

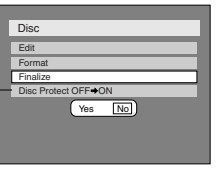
Disc type	Mode
DVD-R ver.2.0	Video mode
DVD-RW ver.1.1	Video mode
ver.1.1 CPRM compatible	VR mode



1 Press **SETUP** button to display SETUP/DISC menu.
SETUP/DISC menu will appear.

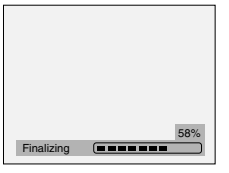
2 Select "DISC" using ◀/▶ buttons, then press **ENTER** button.
DISC menu will appear.

3 Select "Finalize" using ▲/▼ buttons, then press **ENTER** button.
Option window will appear.



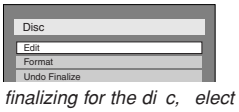
* VR mode only

4 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.
Finalizing will start.



NOTE: Finalizing

- *Thi operation may take a few minute to complete.*
- *Finalizing di c in Video mode automatically create title menu .*
- *Once you have finalized a di c recorded in Video mode, you cannot edit or record any content on that di c. Di c recorded in VR mode can till be recorded and edited on thi unit even after finalized.*
- *To cancel finalizing, pre* ***STOP*** ■ **(DVD)** *button. Select "Ye " u ing ◀/▶ button , then pre* **ENTER** *button.*
- *When you in ert a DVD-RW di c finalized with thi unit, "Undo Finalize" will appear in tead of "Finalize".*



To relea e the finalizing for the di c, elect "Undo Finalize" at tep [3].

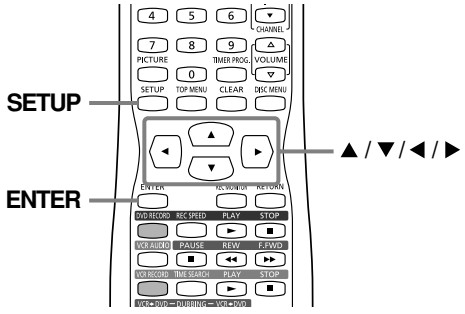
- *If ⃠ appear when pre ing* ***STOP*** ■ ***(DVD)*** *button, you cannot cancel finalizing becau e the finalizing ha been in certain progre . When electing "No", pre* ***ENTER*** *or* ***RETURN*** *button, finalizing will be continued.*

⚠*You cannot cancel finalizing the DVD-R di c once it tart .*

Protecting Discs

DVD-RW (VR)

To prevent accidental recording, editing or erasing the titles, you can protect them.



1 Press **SETUP** button to display SETUP/DISC menu.

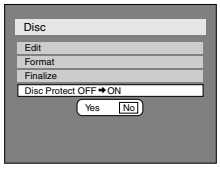
SETUP/DISC menu will appear.

2 Select "DISC" using ◀/▶ buttons, then press **ENTER** button.

DISC menu will appear.

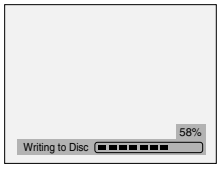
3 Select "Disc Protect OFF ➔ ON" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



4 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

A disc will be protected.

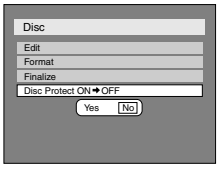


NOTE:

- *Thi operation may take a few minute to complete.*
- *The Di c Protect etting i available only when a di c with VR mode i in erted.*
- *You can only elect Di c Protect Menu when a protected di c i in erted.*

TO CANCEL THE DISC PROTECT :

- *When you in ert a di c protected with thi unit, "Di c Protect ON ➔ OFF" will appear in tead of "OFF ➔ ON".*



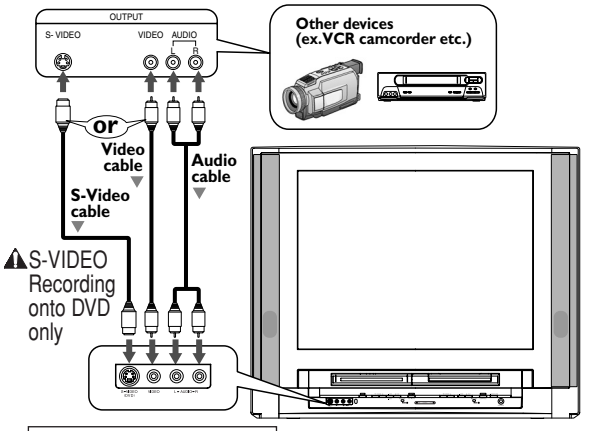
To relea e the protect for the di c, elect "Di c Protect ON ➔ OFF" at tep [3], then elect "Ye ".

Connecting to External Video Products

Connections

Connect the external video products properly to the unit by using input jacks on the front of this unit.

Use S-Video or video cable, and an audio cable for this connection.

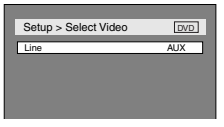


⚠To record onto a VHS tape, use the VIDEO input.

1 Press **SETUP** button to display SETUP/DISC menu.

2 Select "SETUP" using ◄/► buttons, then press **ENTER** button.

3 Select "Select Video" using ▲/▼/◄/► buttons, then press **ENTER** button.



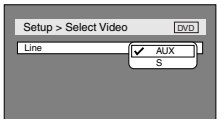
Press **ENTER** button.

Option window will appear.

4 Select the input jack type to connect using ▲/▼ buttons, then press **ENTER** button.

If you want to use S-VIDEO INPUT, select "S".

If you want to use VIDEO INPUT (Composite), select "AUX".

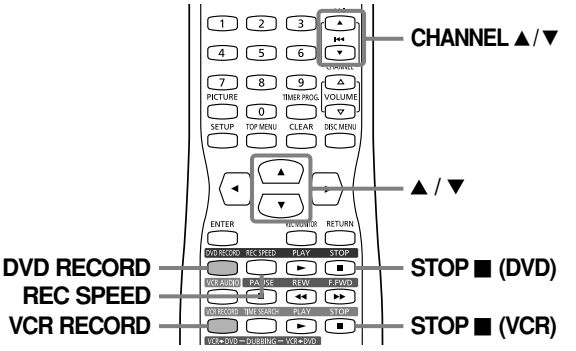


5 Press **SETUP** button to exit.

Recording from External Video Products

DVD-R **DVD-RW (Video)** **DVD-RW (VR)** **VCR**

Before recording from an external video product, see the instructions for the connection in the previous section, “Connections”.



1 Turn the unit on.

2 **When you want to record onto a DVD:**

Press ⏏ **OPEN/CLOSE** button on the main unit to open the disc tray, then place the disc to record properly. Then, press ⏏ **OPEN/CLOSE** button again to close the disc tray.

NOTE:

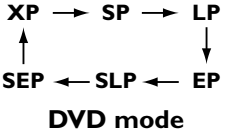
• Thi operation may take a few minute to complete.

When you want to record to a tape:

Insert the tape with a safety tab into the cassette compartment.

3 Select the external input mode (“AUX” or “S”) using **CHANNEL ▲/▼** buttons.

4 Press **REC SPEED** button (For VCR, press **REC SPEED** button twice), then change the recording speed using ▲/▼ buttons until your desired speed is displayed. Refer to "Recording Speed" on page 48 for DVD or page 28 for VCR.



5 Press **DVD RECORD** button or **VCR RECORD** button to start recording.

6 Press PLAY button on the external video product.

7 **For disc:**

Press **STOP ■ (DVD)** button to stop recording.

NOTE:

• Thi operation may take a few minute to complete.

For tape:

Press **STOP ■ (VCR)** button to stop recording.

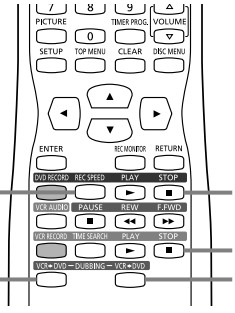
DUBBING

DVD-R **DVD-RW (Video)** **DVD-RW (VR)** **VCR**

You can copy a DVD disc to a videotape or copy a videotape to a DVD disc. This function will be possible only if the DVD disc or the tape is not copy protected. Before starting this function, prepare for the recording on the DVD-R/RW disc or the videotape. Refer to pages 48-55, 28-30.

⚠NOTE: Load Recording Media

• In ert a DVD di c or videotape with the available recording pace.



VCR to DVD

The DVD recording speed and format should be selected first. Refer to "Recording" on page 48 and "Formatting" on pages 49-50.

1 Press **REC SPEED** button first, and select a recording speed using ▲/▼ buttons.

2 Press **VCR ➡ DVD** button on the remote control or on the main unit.

VCR to DVD duplication will start.

3 Press **STOP ■ (DVD)** or **STOP ■ (VCR)** button on the remote control or on the main unit to stop the recording.

NOTE:

• After tarting VCR to DVD duplication, the picture may be di torted becau e of the auto tracking function. Thi i not a malfunction. Be advi ed to playback the tape until the picture i tabilized, then et the tarting point you wi h to tart recording, and tart VCR to DVD duplication.

DVD to VCR

The tape's record tab should be intact.

The videotape should have enough available space to record the DVD disc.

1 Press **REC SPEED** button twice, and select a recording speed using ▲/▼ buttons.

2 Press **VCR ⬅ DVD** button on the remote control or on the main unit.

DVD to VCR duplication will start.

3 Press **STOP ■ (DVD)** or **STOP ■ (VCR)** button on the remote control or on the main unit to stop the recording.

NOTE: DVD Dubbing

• Duplicating operation from DVD to VCR i only available when DVD top or during DVD playing, and when VCR top .

• You cannot make a dub from a DVD di c protected by copyright, uch a a prerecorded DVD.

TIMER RECORDIN

Timer Recording

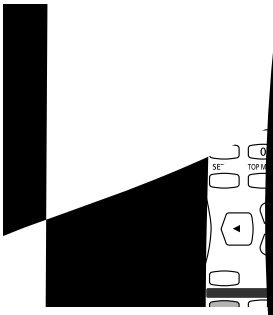
DVD-R **DVD-RW (Video)** **M**

You can program up to 7 pro
advance. Daily or weekly pr
also available.

NOTE: Time must be s

• Be ure to et the clock bef

• In ert a recordable di c or



1 Press **SETUP** button t
menu.

SETUP/DISC menu wi

2 Select "SETUP" using
ENTER button.

SETUP menu will app

3 Select "Recordin
press **ENTER** b

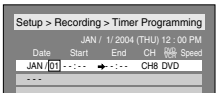
Recording m

4 Select "T
then p

T

ogram
R bu

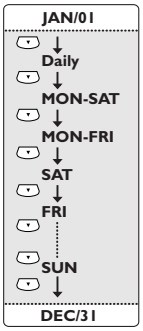
nter the date using ▲/▼ buttons, then press ► button.



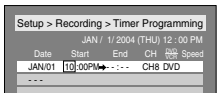
e.g. January 1st

NOTE:

• When pre ing ▼ button at the current date, timer recording mode will change a follow :

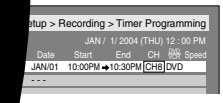


7 Enter the time to start and to end using ▲/▼ but-
s, then press ► button.



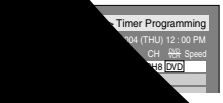
utton to move the cur or to the left and the programming menu.

nel number to record using ▲/▼
ress ► button.



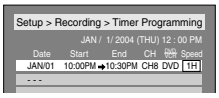
m external input, select “AUX”.

g media using ▲/▼ buttons,
n.



/CR.

10 Select a recording speed using ▲/▼ buttons.



Refer to "Recording speed" on page 48 for DVD or page 28 for VCR.

- If you set Recording speed to “Auto” at step [10], this unit will automatically adjust the recording speed so that the program will fit into one disc.
  (You can select “Auto” in the first program only.)

11 Press **ENTER** button when all information required is entered.

Your program setting will be entered.

- To set another program, repeat steps [5] to [11].
- To exit, press **SETUP** button.

12 Press **POWER** button to turn off.

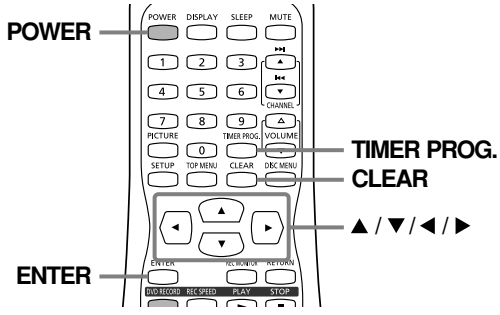
⚠Important

When you set the timer program in either DVD mode or VCR mode, RECORD indicator (DVD) will illuminate on the front of the TV. See item No.19 on page 7.

NOTE:

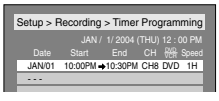
- *If power i not turned off and you continue watching TV, “TIMER REC STANDBY” tart fla hing on the TV creen 2 minute before the programmed tart time. In thi ca e, pre* ***POWER*** *button to turn off to activate the timer recording.*
- *You may turn on the unit once the timer recording ha tarted.*

Checking, canceling, or correcting the timer programming information



1 Press **POWER** button.

2 Press **TIMER PROG.** button. Timer Programming list will appear.



3 Check the information.

4 To clear the timer programming, select your desired program using ▲/▼ buttons, then press **CLEAR** button.

To correct the timer programming, select your desired program using ▲/▼ buttons, then press **ENTER** button.

Next, correct the timer programming using ▲/▼/◀/▶ buttons.

Finally, press **ENTER** button again.

5 Press **TIMER PROG.** button to exit.

6 Press **POWER** button to return to the timer standby mode.

NOTE:

- *Pre* ***TIMER PROG.*** *button to check the timer programming in proce .*
  When the timer recording i in proce , that program will be highlighted in red. In thi ca e, you cannot elect any other program.

To stop the timer recording in process

Press **POWER** button first to turn on the unit. Then, on the front panel of the unit, press **STOP ■ (DVD)** button to stop the recording or **■ STOP/⏏ EJECT** to stop the tape recording. **STOP ■** button on the remote control does not work for timer recording.

Suggestions for Timer Recording

- If there is a power failure or this unit has been unplugged for more than 3 seconds, the clock setting and all timer settings will be lost.
- If a disc is not on the tray, timer recording cannot be performed. Please insert a recordable disc.
- If a tape with a record tab is not in the cassette compartment, timer recording cannot be performed. Please insert a recordable tape. See "Accidental erasure prevention" on page 28.
- The main unit automatically ejects a tape without a record tab inserted in the compartment when you turn off the power and move to timer standby mode.
- When all the timer recording is completed, the RECORD indicator disappears. To play the recorded disc (or the tape), press **POWER** button first and then press **PLAY ► (DVD)** or **PLAY ► (VCR).** To eject the recorded disc (or the tape), press ▲ **OPEN/CLOSE** (or ■ **STOP/▲ EJECT**) button.
- The timer recording is not performed in DVD and VCR at the same time. If you set two programs with the same channel and time both in DVD and VCR, the program that has priority will be recorded.
- During timer recording or timer standby (RECORD indicator is on the front display), any operations on the unit will not be available. To make these operations available, cancel the timer recording or timer standby first (RECORD indicator disappears).
- To cancel the timer standby mode, press **POWER** button.
- When the Start and the End time are the same, the length of the recording will be set for 24 hours. When the disc reaches at the end during the recording, the unit turns itself off.
- When the programmed Start and End time are earlier than the current time, the recording will be set on the same date in the next year.
- If your programmed Start time for DVD recording is within 2 minutes from the current time, the power will turn on for recording standby right after you turn the power off. For a videotape recording, the power will turn on shortly before the Start time.
- If a videotape ends during timer recording, the unit will stop, eject the videotape, and turn itself off.
- When two or more programmings are overlapped, "Overlap" will be displayed.

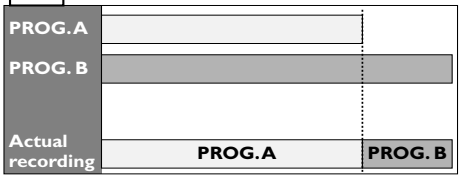
The priority of overlapped settings

This unit records the programs according to priority if the timer programs are overlapped. The timer program set first is given priority.
A timer recording of lower priority will be canceled, begin from the middle or stopped at the end.
Check the overlapped timer programs and change the priority if necessary.

■ **A programming set previously has priority**

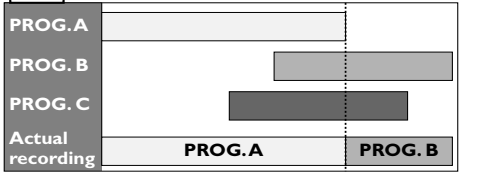
☐ **When the starting time is the same:**
A program set previously (PROG.A) has priority.

ex. 1

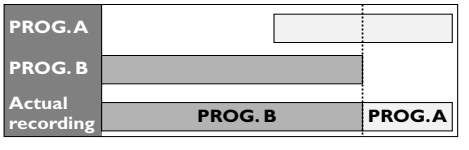


☐ **When some programming have been made at the end time of the programming currently being recorded:**
A program set previously (PROG. B) has priority.

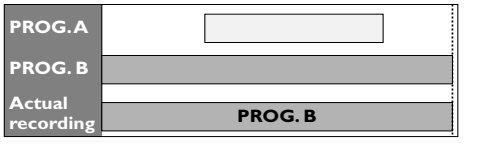
ex. 2



■ **When the recording time is partially overlapped:**
PROG. A will start after PROG. B is complete to be recorded.



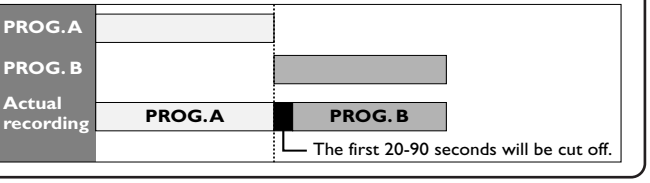
■ **When the recording time is entirely overlapped:**
PROG. A will not be recorded.



Note for DVD timer recording

- When the recording time of two programs are overlapped, or the End time of a program and the Start time of another is the same, the first 20-90 seconds of the subsequent program will be cut off.

Example:
When the end time of the programming currently being recorded and the starting time of the one to be recorded sequentially are same:

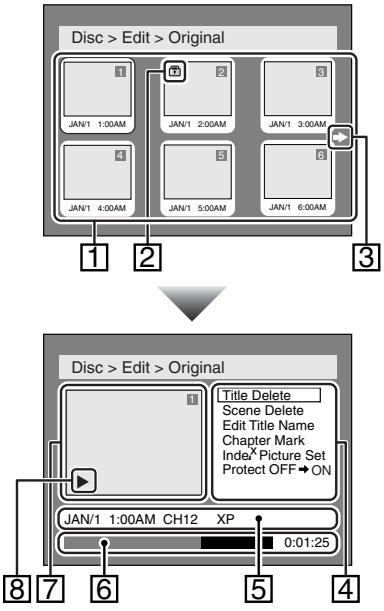


EDITING DISCS

About Disc Editing

Title List

Title list allows you to check the titles recorded on the disc easily. You can choose a title to edit from this screen and easily edit the titles as you prefer.



1. Titles recorded on the disc can be selected to edit by pressing **ENTER** button with the cursor on the title.
2. Protect icon, which appears when the title has been protected.
3. The arrow icon, which means the title list includes a next or a previous page. Press ► or ◄ button by following direction of the icon.
4. The menus for editing titles as you prefer. The available menu depends on the disc type and the format type.
5. The details of the title, which can be changed to the title name you will edit.
6. Time status bar of the title.
7. The selected title thumbnails from the title list.
8. Playback status of the current disc.

Editing in Video Mode

You can edit the following items for discs in Video mode. Be sure that once you edit titles, they will not remain as recorded originally.

- Deleting titles (Refer to page 62)
- Putting names on titles (Refer to page 63)
- Setting or clearing chapter markers (Refer to page 63)

NOTE: Finalized Discs

- *Once a di c i finalized, editing the di c or recording to the di c will not be available. (Except DVD-RW di c in VR mode.)*
- *A playli t i not available with the DVD-R di c and DVD-RW di c in Video mode.*

Editing in VR Mode

For discs in VR mode, you can edit from "Original" menu or "Playlist" menu, which is created from the original.

Editing original titles

The following operations can be used to edit the original titles.

-Deleting titles (Refer to page 64)

-Deleting parts of titles (Refer to page 65)

-Putting names on titles (Refer to page 65)

-Setting or clearing chapter markers (Refer to page 66)

-Setting pictures for thumbnails (Refer to page 66)

-Setting titles to protect (Refer to page 67)

-Releasing titles from protecting (Refer to page 67)

Editing playlists

You can create a playlist from original titles, so that you can edit as you prefer without losing original titles. The following operations you can edit with a playlist.

-Deleting titles (Refer to page 68)

-Deleting parts of titles (Refer to page 69)

-Putting names on titles (Refer to page 69)

-Setting or clearing chapter markers (Refer to page 70)

-Setting pictures for thumbnails (Refer to page 70)

-Adding titles to a playlist (Refer to page 71)

-Deleting a playlist (Refer to page 71)

NOTE: Original Titles

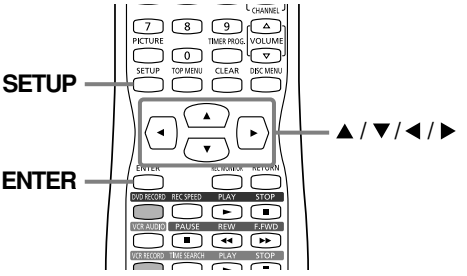
- *Original title once edited will not remain a recorded originally. When you want to leave the original a it i , edit the playli t a you prefer. (Refer to page 68-71.)*

Editing Discs in Video Mode

Deleting Titles

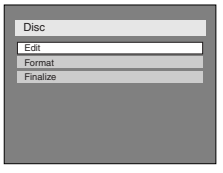
DVD-R DVD-RW (Video)

⚠Caution:
You can delete titles that you do not need anymore. The titles once deleted cannot be recovered to the disc. When the last title in the title list in Video mode is deleted, the disc space to record will be increased. For DVD-R disc, the disc space to record will not be changed.



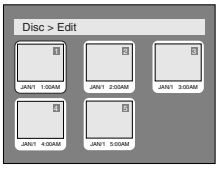
1 Press **SETUP** button. Select "DISC" using ◀/▶ buttons, then press **ENTER** button.

DISC menu will appear.



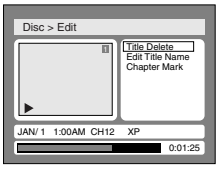
2 Select "Edit" using ▲/▼ buttons, then press **ENTER** button.

Title list will appear.



3 Select a desired title using ▲/▼/◀/▶ buttons, then press **ENTER** button.

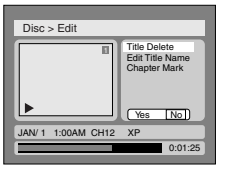
Edit menu will appear.



- You cannot select “Chapter Mark” when a DVD-R disc is inserted into this unit.

4 Select "Title Delete" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



5 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

Title will be deleted.

NOTE:
• Thi operation may take a few minute to complete.

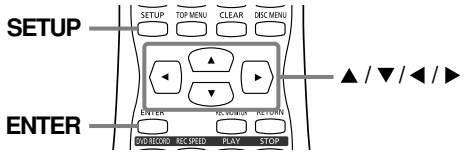
6 After writing to disc is completed, press **SETUP** button to exit DISC menu.

Naming Titles

DVD-R **DVD-RW (Video)**

You can name the titles and change the names from this menu.

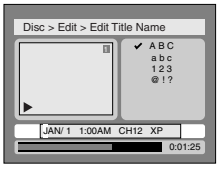
The title names will be displayed on a Title List.



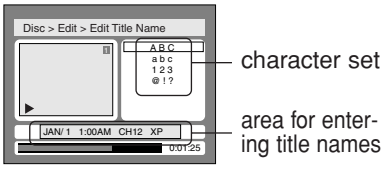
Follow the steps [1] to [3] on page 62 to display the Edit menu.

1 Select "Edit Title Name" using ▲/▼ buttons, then press **ENTER** button.

A window for entering a title name will appear.



2 To enter a title name, follow the steps shown in "Guide to edit title name" below.

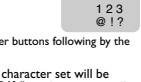


When you finish entering a title name, press **ENTER** button.

[Guide to edit title name]

Select / Press	ABC	abc	123	@!?
0	<space>	<space>	0	<space>
1	*1	*1	1	! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [ ] ^ _ { | }
2	ABC	abc	2	*2
3	DEF	def	3	*2
4	GHI	ghi	4	*2
5	JKL	jkl	5	*2
6	MNO	mno	6	*2
7	PQRS	pqrs	7	*2
8	TUV	tuv	8	*2
9	WXYZ	wxyz	9	*2

[Step1]: Select a desired character set using ▲/▼ buttons, then press ENTER button.



[Step2]: Press Number buttons following by the list.

*1 Press 1 button, character set will be changed to the " @!? " mode automatically.

*2 Press 2 to 9 buttons, character set will be changed to the previous input mode automatically.

- To delete letters, press **CLEAR** button repeatedly.
- To go on to the next entering area for letters, press ► button.
- You can enter up to 30 letters.

3 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

The name you entered will be activated for the title.

NOTE:

• Thi operation may take a few minute to complete.

4 After writing to disc is completed, press **SETUP** button to exit DISC menu.

Setting Chapter Markers

DVD-RW (Video)

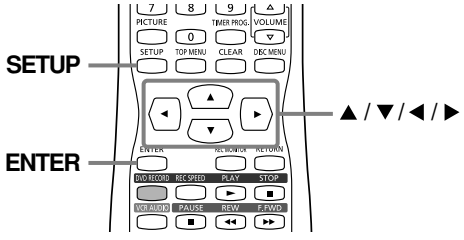
You can put chapter markers in each title. Once a chapter is marked, you can use it for the chapter search. You can set chapter markers at a specified time you selected for titles with more than 5 minutes.

NOTE:

• You cannot elect a time for putting marker beyond a length of a title.

• When recording at the recording peed other than XP or SEP, the length of chapter may be lightly longer or horter than the one pecified at the tep [2].

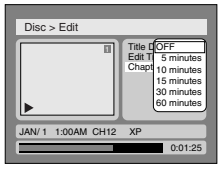
• A chapter marker may be delayed according to the recording content.



Follow the steps [1] to [3] on page 62 to display the Edit menu.

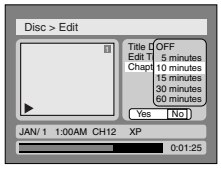
1 Select "Chapter Mark" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



2 Select a desired time using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



3 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

Chapter marks will be put as you specified.

NOTE:

• Thi operation may take a few minute to complete.

4 After writing to disc is completed, press **SETUP** button to exit DISC menu.

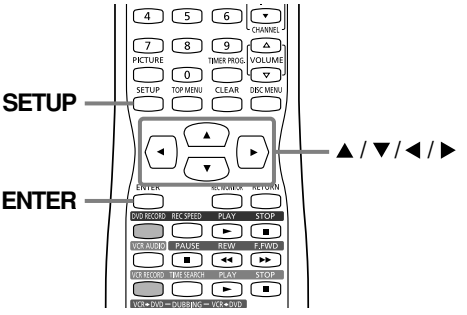
Editing DVD-RW Discs in VR Mode (Original)

Deleting Titles

DVD-RW (VR)

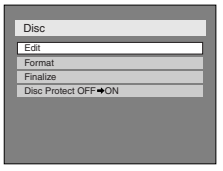
When a title is deleted from an original list in VR mode, the disc space to record will be increased.

⚠Caution:
Be advised that the titles once deleted cannot be brought back to the disc.



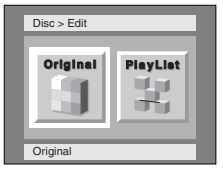
1 Press **SETUP** button. Select "DISC" using ◀/▶ buttons, then press **ENTER** button.

DISC menu will appear.



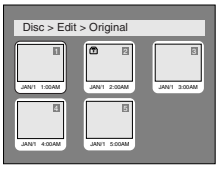
2 Select "Edit" using ▲/▼ buttons, then press **ENTER** button.

Original/PlayList menu will appear.



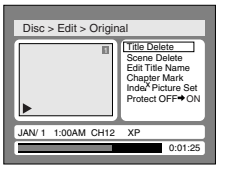
3 Select "Original" using ◀/▶ buttons, then press **ENTER** button.

Original list will appear.



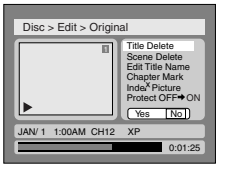
4 Select a desired title using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Original menu will appear.



5 Select "Title Delete" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



⚠Caution:
Once erased, the material cannot be retrieved.

6 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

Title will be deleted.

NOTE:
• Thi operation may take a few minute to complete.

7 After writing to disc is completed, press **SETUP** button to exit DISC menu.

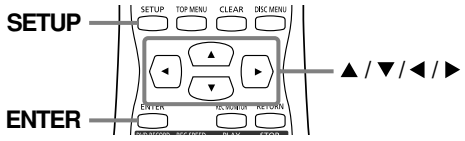
Deleting Parts of Titles

DVD-RW (VR)

You can delete part of a title so that the disc space to record will increase.

⚠Caution:

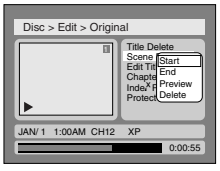
Be advised that the parts once deleted cannot be recovered.



Follow the steps [1] to [4] on page 64 to display the Original menu.

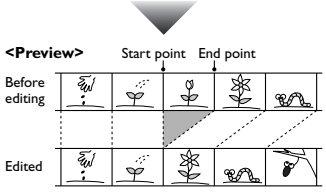
1 Select "Scene Delete" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



2 Press **ENTER** button to decide a start point, then press **ENTER** button to decide an end point.

A cursor will move to "Preview." You can check a preview.



3 Select "Delete" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.

4 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

Part of a title will be deleted.

NOTE:

- *Thi operation may take a few minute to complete.*
- *You cannot elect "Scene Delete" when the number of chapter marker in the original or playli t i more than 900.*

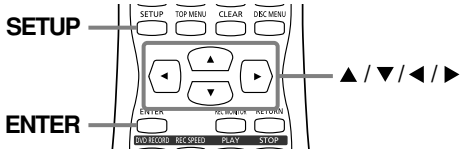
5 After writing to disc is completed, press **SETUP** button to exit DISC menu.

Naming Titles

DVD-RW (VR)

You can name the titles and change the names from this menu.

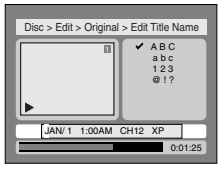
The title names will be displayed on a Title List.



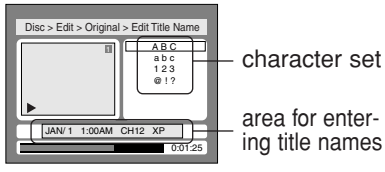
Follow the steps [1] to [4] on page 64 to display the Original menu.

1 Select "Edit Title Name" using ▲/▼ buttons, then press **ENTER** button.

A window for entering a title name will appear.



2 To enter a title name, follow the steps shown in "Guide to edit title name" below.



When you finish entering a title name, press **ENTER** button.

[Guide to edit title name]

Select / Press	ABC	abc	123	@!?
0	<space>	<space>	0	<space>
1	*1	*1	1	! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [ ] ^ _ { | }
2	ABC	abc	2	*2
3	DEF	def	3	*2
4	GHI	ghi	4	*2
5	JKL	jkl	5	*2
6	MNO	mno	6	*2
7	PQRS	pqrs	7	*2
8	TUV	tuv	8	*2
9	WXYZ	wxyz	9	*2

[Step1]: Select a desired character set using ▲/▼ buttons, then press ENTER button.

✔ A B C
a b c
1 2 3
@ ! ?

[Step2]: Press Number buttons following by the list.

*1 Press 1 button, character set will be changed to the " @!? " mode automatically.

*2 Press 2 to 9 buttons, character set will be changed to the previous input mode automatically.

- To delete letters, press **CLEAR** button repeatedly.
- To go on to the next entering area for letters, press ► button.
- You can enter up to 30 letters.

3 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

The name you entered will be activated for the title.

NOTE:

- *Thi operation may take a few minute to complete.*

4 After writing to disc is completed, press **SETUP** button to exit DISC menu.

Setting Chapter Markers

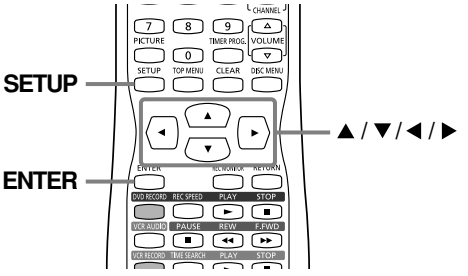
DVD-RW (VR)

You can put chapter markers in each title. Once a chapter is marked, you can use it for chapter search.

You can put a chapter marker anywhere you want.

NOTE:

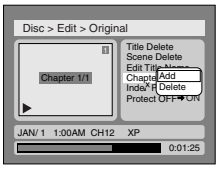
• When the number of chapter marker in the original li t come to 999 in total, you cannot add any more chapter marker .



Follow the steps [1] to [4] on page 64 to display the Original menu.

1 Select "Chapter Mark" using ▲/▼ buttons, then press **ENTER** button.

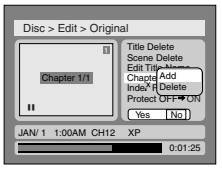
Option window will appear.

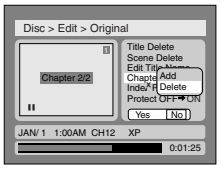


2 Select "Add" or "Delete" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.

<Add>: <Delete>:





• You cannot delete the first chapter marker of each title.

3 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

A chapter marker will be added or deleted.

NOTE:

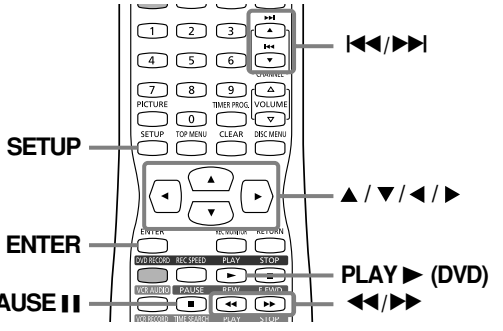
• The e operation may take a few minute to complete.

4 After writing to disc is completed, press **SETUP** button to exit DISC menu.

Setting Pictures for Thumbnails

DVD-RW (VR)

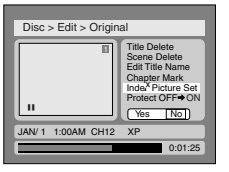
You can set a picture to each title for a thumbnail. It helps you to remember the contents of the title you are playing. The beginning picture has been selected as the default.



Follow the steps [1] to [4] on page 64 to display the Original menu.

1 Select "Index Picture Set" using ▲/▼ buttons. Use I◀◀, ▶▶I, ◀◀, ▶▶, **PLAY ▶ (DVD)**, and **PAUSE ❚❚** buttons to decide the picture you want to select as a thumbnail. Then, press **ENTER** button.

Option window will appear.



2 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

A picture for thumbnail will be set.

NOTE:

• Thi operation may take a few minute to complete.

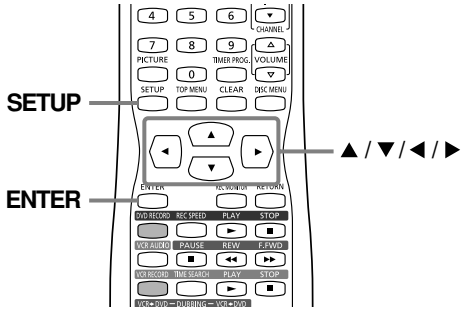
• If a elected picture for a thumbnail i deleted by deleting a part of a title, a default picture will be elected.

3 After writing to disc is completed, press **SETUP** button to exit DISC menu.

Protecting Titles

DVD-RW (VR)

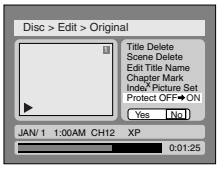
To prevent accidental editing or erasing the titles, you can protect them from the original menu.



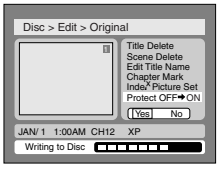
Follow the steps [1] to [4] on page 64 to display the Original menu.

1 Select "Protect OFF ➔ ON" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



2 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.



NOTE:

• Thi operation may take a few minute to complete.

3 After writing to disc is completed, press **SETUP** button to exit DISC menu.

To protect a whole disc (DVD-RW VR mode Only):

Select "Disc Protect" from Disc menu, then select "Yes". Refer to page 55.

NOTE: Title Protection

• Once you protect the title , other editing operation are not available until you relea e the title protection.

Releasing Title Protect

DVD-RW (VR)

You can release the title protection once you protected.

Follow the steps [1] to [3] on page 64 to display the Original list.

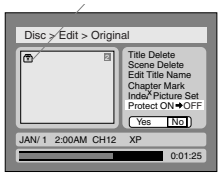
1 Select a desired title using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Original menu will appear.

"Protect ON ➔ OFF" is selected.

2 Press **ENTER** button.

Option window will appear.



3 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

NOTE:

• Thi operation may take a few minute to complete.

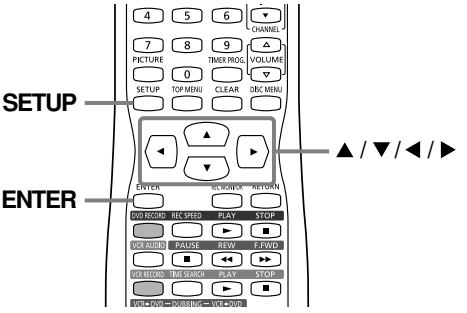
4 After writing to disc is completed, press **SETUP** button to exit DISC menu.

Editing DVD-RW Discs in VR Mode (Playlist)

Deleting Titles

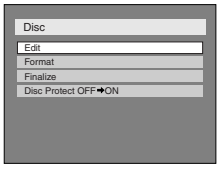
DVD-RW (VR)

In VR mode, even when a title is deleted from a Playlist, the original title will remain in an Original list. The disc space to record will not increase.



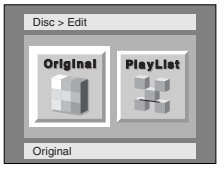
1 Press **SETUP** button. Select "DISC" using ◀/▶ buttons, then press **ENTER** button.

DISC menu will appear.



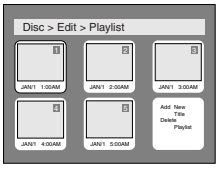
2 Select "Edit" using ▲/▼ buttons, then press **ENTER** button.

Original/PlayList menu will appear.



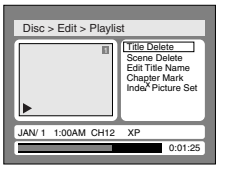
3 Select "PlayList" using ◀/▶ buttons, then press **ENTER** button.

Playlist will appear.



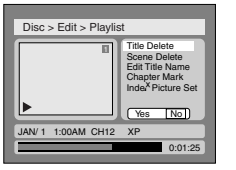
4 Select a desired title using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Playlist menu will appear.



5 Select "Title Delete" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.



6 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

Title will be deleted.

NOTE:

• Thi operation may take a few minute to complete.

7 After writing to disc is completed, press **SETUP** button to exit DISC menu.

Deleting Parts of Titles

DVD-RW (VR)

⚠Important
You can delete a specific part of a title. Even when a title is deleted from the Playlist, the original title will remain. The disc space to record will not be increased.

Follow the steps [1] to [4] on page 68 to display the Playlist menu.

1 Select "Scene Delete" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.

2 Press **ENTER** button to decide a start point, then press **ENTER** button to decide an end point.

A cursor will move to "Preview". You can check a preview.

3 Select "Delete" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.

4 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

Part of a title will be deleted.

NOTE:

- *Thi operation may take a few minute to complete.*
- *You cannot elect "Scene Delete" when the number of chapter marker in the original or playli t i more than 900.*

5 After writing to disc is completed, press **SETUP** button to exit DISC menu.

Setting Chapter Markers

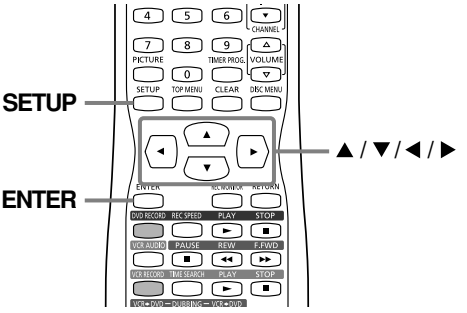
DVD-RW (VR)

You can put chapter markers in each title. Once a chapter is marked, you can use it for the chapter search.

You can put a chapter marker anywhere you want.

NOTE:

• When the number of chapter marker in the original li t come to 999 in total, you cannot add any more chapter marker .



Follow the steps [1] to [4] on page 68 to display the Playlist menu.

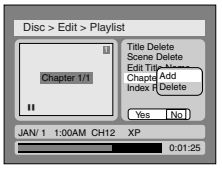
1 Select "Chapter Mark" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.

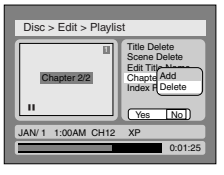
2 Select "Add" or "Delete" using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.

<Add>:



<Delete>:



• You cannot delete the first chapter of each title.

3 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

A chapter marker will be added or deleted.

NOTE:

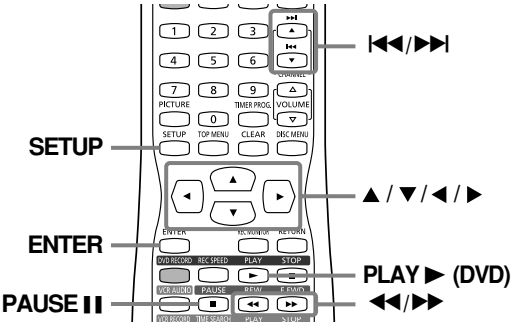
• The e operation may take a few minute to complete.

4 After writing to disc is completed, press **SETUP** button to exit DISC menu.

Setting Pictures for Thumbnails

DVD-RW (VR)

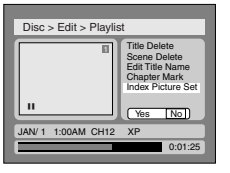
You can set a picture to each title for a thumbnail. It helps you to remember the contents of the title you are playing. The beginning picture has been selected as the default.



Follow the steps [1] to [4] on page 68 to display the Playlist menu.

1 Select "Index Picture Set" using ▲/▼ buttons. Use I◀◀, ▶▶I, ◀◀, ▶▶, **PLAY ▶ (DVD)**, and **PAUSE ❚❚** buttons to decide the picture you want to select as a thumbnail. Then, press **ENTER** button.

Option window will appear and the video in the thumbnail will begin to play.



2 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

A picture for thumbnail will be set.

NOTE:

• Thi operation may take a few minute to complete.

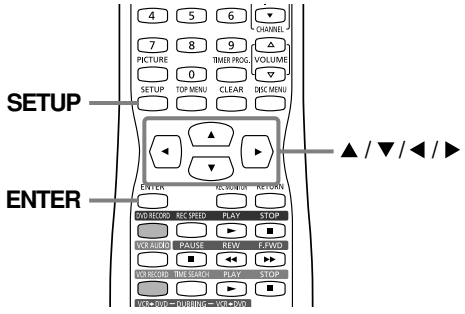
• If a elected picture for a thumbnail i deleted by deleting a part of a title, a default picture will be elected.

3 After writing to disc is completed, press **SETUP** button to exit DISC menu.

Adding Titles to Playlist

DVD-RW (VR)

You can add or delete a title in the playlist as you prefer. You can add titles to a Playlist up to 99.



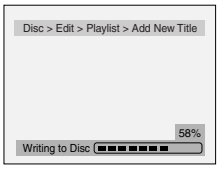
Follow the steps [1] to [3] on page 68 to display the Playlist.

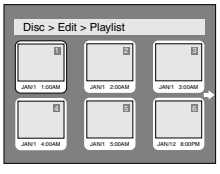
1 Select "Add New Title" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Original list will appear.

2 Select a desired title using ▲/▼/◀/▶ buttons, then press **ENTER** button.

The selected title will be added in Playlist.





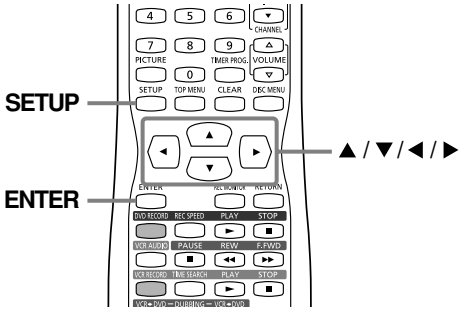
3 After writing to disc is completed, press **SETUP** button to exit DISC menu.

- To delete a title from Playlist, refer to "Deleting Titles" on page 68.
- To delete a Playlist, refer to "Deleting Playlist" in the next section.

Deleting Playlist

DVD-RW (VR)

A Playlist can be deleted if no longer needed.



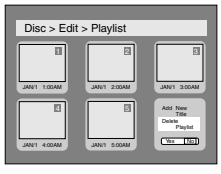
Follow the steps [1] to [3] on page 68 to display the Playlist.

1 Select "Delete Playlist" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

Option window will appear.

NOTE: Playlist

• Deleting a Playli t will not increa e the available recording time on di c.



2 Select "Yes" using ◀/▶ buttons, then press **ENTER** button.

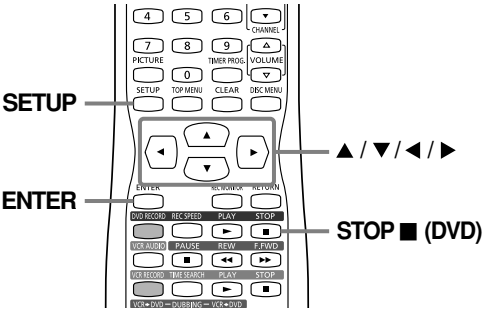
Playlist will be erased. The display will return to TV screen.

PARENTAL LOCK LEVEL SETTING

Some DVD-Video discs feature a Parental Lock level. Playback will stop if the ratings exceed the levels you set, it will require you to enter a password before the disc will playback. This feature prevents your children from viewing inappropriate material.

NOTE: Parental Lock Availability

- *Parental lock function may not be available to ome di c .*
- *With ome DVD , it may be difficult to find if they are compatible with parental lock. Be ure to check if the parental lock function operate a you have et.*



Press **STOP (DVD)** button if you are playing a disc.

1 Press **SETUP** button to display SETUP/DISC menu.

SETUP/DISC menu will appear.

2 Select "SETUP" using ◀/▶ buttons, then press **ENTER** button.

SETUP menu will appear.

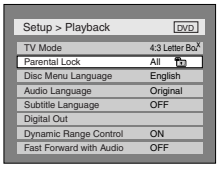
3 Select "Playback" using ▲/▼/◀/▶ buttons, then press **ENTER** button.

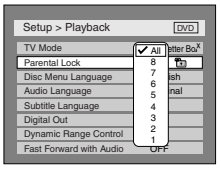
Option window will appear.

4 Select "Parental Lock" using ▲/▼ buttons, then press **ENTER** button.

Parental Lock (Default :All)

Set the Parental Lock level.



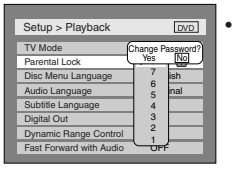


- Change the parental level using ▲/▼ buttons, then press **ENTER** button.

Option window will appear.

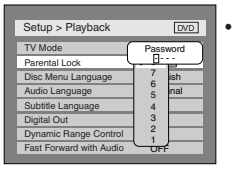
Proceed to step [A] or [B].

[A] A password has not been set yet



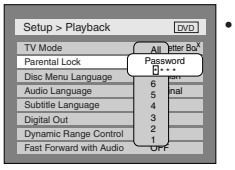
- If you select "No", proceed to step [5].

Yes

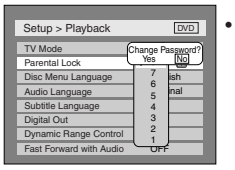


- Select "Yes" using ◀/▶ buttons, then enter a new password using Number buttons. Then, press **ENTER** button. Your setting will be activated.

[B] A password has been set already



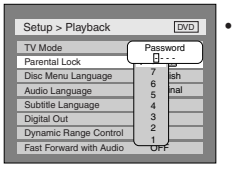
- Enter the current password using Number buttons.



- If you select "No", proceed to step [5].

Yes

Change the password



- Select "Yes" using ◀/▶ buttons, then enter a new password using Number buttons. Then, press **ENTER** button. Your setting will be activated.

NOTE: Forget Password

- *Record the pa word in ca e you forget it.*
- *Pre **CLEAR** button to era e number entered incorrectly.*
- *When you forget the pa word or you want to clear all et- ting in Parental lock, enter 4,7,3,7 u ing Number button in option window. Pa word will be cleared and parental level will be et to All.*

5 Press **SETUP** button to exit SETUP menu.

CHANGING SETUP MENU

SETUP MENU LIST

The following table shows the contents you can set, including the default settings.
Refer to the following table for useful operation.

SETUP menu	Items (highlight is the default)		Contents
1.Language setting ➥ Page 32	Disc Menu Language	English French Spanish ⋮	Set the language for disc menu.
	Audio Language	Original English French ⋮	Set the language for audio.
	Subtitle Language	OFF English French ⋮	Set the language for subtitle.
2.Audio setting ➥ Pages 12-13	Digital Out	PCM Auto 48kHz 96kHz	Set whether the sound recorded in 96kHz will be down sampled in 48kHz.
		Dolby Digital PCM Stream	Set the type of sound signal which outputs from the digital audio output jack.
	Dynamic Range Control	ON OFF	Compressing the range of sound volume.
	Fast Forward with Audio	ON OFF	Outputting the sound during play in fast forward.
3. OSD Display setting ➥ Pages 14-15, 24-27	OSD Background Transparency	100% ⋮ 35% 25% ⋮	Set the background transparency of OSD screen.
	OSD Background Color	1 2 3	Set the OSD screen color. 1 (Green), 2 (Blue), 3 (Red)
	OSD Language	English Français Español	Select the language for OSD.
	Screen Saver	OFF 5 minutes 10minutes ⋮	Set the time to work the screen saver on the screen.
	Caption	OFF CAPTION1 ⋮	Set the closed caption mode.
	V-CHIP Setup	TV RATING MPAA RATING CHANGE CODE	Prevent their children from watching inappropriate material on TV.
4.Parental setting ➥ Page 72	Parental Lock	ALL level 8 to 1	Set the parental level of your DVD discs.
	(Change password)	Enter the current four-digit password	Set and change the password.

NOTE:

• If you change the etting in SETUP menu, the information remain even when the power i turned off.

TROUBLESHOOTING

Before requesting service for this unit, check the table below for a possible cause of the problem you are experiencing. Some simple corrections may solve the problem and restore the proper operation.

Symptom		Remedy
Power		
	The power does not turn on.	• Check that the AC power cord is connected securely.
Picture		
	There is no picture.	• Re-connect the connecting cord securely. • The connecting cords are damaged. • The Setup Display appears. Press **SETUP** or **RETURN** button to turn off the display. • Check antenna/cable wire and the fittings at each end of the wire.
	Picture noise appears.	• The disc is dirty or flawed. • Head cleaning for VCR may be necessary. Refer to "AUTO HEAD CLEANING". • Adjust tracking control for better picture by pressing **CHANNEL ▲/▼** buttons while you are playing a video tape. • Check antenna/cable wire and the fittings at each end of the wire.
	TV program reception does not fill the screen.	• Try to set the channels with "Auto Preset" in SETUP menu (page 16). • Select a channel of any TV program using the **CHANNEL ▲/▼** buttons. • Check antenna/cable wire and the fittings at each end of the wire.
	TV program pictures are distorted.	• Adjust antenna. • Adjust the picture. • Place this unit and any bunched antenna cables farther apart. • Check antenna/cable wire and the fittings at each end of the wire.
	TV channels cannot be changed.	• Connect the antenna cable correctly (page 10). • Perform auto channel preset on page 16. • Check antenna/cable wire and the fittings at each end of the wire.
	Distorted color appears on screen	• Magnetism from nearby appliances and unshielded speakers and geomagnetism might affect the color of the TV picture. Move the TV/VCR/DVD away from the appliances or unshielded speakers, the TV/VCR/DVD can repair itself automatically. If you want to repair immediately, unplug the power cord, then plug it in again after 30 minutes later or so.
Sound		
	No sound is output.	• Adjust volume control. • The disc is dirty or flawed. • Re-connect all connections securely. • The connecting cord is damaged. • Check the connections to the amplifier input. • The input source setting on the amplifier is incorrect. • The unit is in Pause mode or in Slow-motion play mode. • The unit is in fast forward or fast reverse mode. • If the audio signal does not come through the AUDIO OUT COAXIAL jack, check the Audio Setup settings (pages 12-13).
	Sound is noisy.	• The disc is dirty or flawed. • When playing a DTS-CD, noise may come from the speakers. This unit is not compatible with DTS-CD.
	No DTS sound is output.	• This unit is not compatible with DTS sound.

Symptom	Remedy
Playback	
The disc does not play.	• No disc is inserted. • A blank disc is inserted. • No cassette tape is inserted. • The disc is upside down. Insert the disc with the labeled side facing up. • The disc is not correctly inserted. • The unit cannot play certain discs (such as a CD-ROM) (page 31). • The region code on the DVD VIDEO does not match the unit (page 31). • Moisture has condensed inside the unit. Remove the disc and leave the unit turned on at least for 2 hours until the moisture evaporates (page 5). • If the disc was recorded on other recorder, the unit cannot play the disc if it was not finalized (page 54).
The disc does not start playback from the beginning.	• Resume play was activated (page 36). Press **STOP ■ (DVD)** button twice. • You have inserted a disc whose Title menu or DVD menu automatically appears on the TV screen when it is first inserted.
The unit starts playing from the disc automatically.	• The DVD VIDEO features an auto playback function.
Some functions such as Stop, Search, or Slow-motion Play cannot be performed.	• Depending on the disc, you may not be able to do some of the operations above. See the instruction manual supplied with the disc.
The language for the sound track cannot be changed.	• Multilingual tracks are not recorded on the DVD VIDEO, DVD-R or DVD-RW being played. • The DVD VIDEO prohibits the changing of the language for the sound track. • Try changing the language using the DVD VIDEO's menu.
The subtitle language cannot be changed or turned off.	• Multilingual subtitle are not recorded on the DVD VIDEO. • The DVD VIDEO prohibits changing of the subtitles. • Try changing the subtitle using the DVD VIDEO's menu.
The angles cannot be changed.	• Multi-angles are not recorded on the DVD VIDEO being played. • You are trying to change the angles when icon does not appear on the TV screen (page 43). • The DVD VIDEO prohibits changing angles. • Try changing the angle using the DVD VIDEO's menu.
Recording/Timer recording/Editing	
The channel cannot be changed from the channel you are recording.	• You can only watch the channel currently being recorded.
Recording does not start immediately after you press **DVD RECORD** or **VCR RECORD** button.	• An unused DVD-R or DVD-RW was inserted. It takes a while for the unit to automatically format a disc. • Make sure the tape has a record tab when you record to a cassette tape. If needed, cover the hole with cellophane tape.
Nothing was recorded even though you set the timer setting correctly.	• There was a power failure during recording. • The units internal clock stopped due to a power failure that lasted for more than 3 seconds. Reset the clock (page 19). • Disconnect the AC power cord from the AC outlet, and connect it again. • The program contains copy protection signals that restrict copying. • The timer setting overlapped with another setting that was set later or has priority.
Recording does not stop immediately after you press **STOP ■** button.	• It will take a few seconds for the unit to input disc data before recording stops.
Timer recording is not completed or did not start from the beginning.	• The timer setting overlapped with another setting that was set later or has priority (page 60). • Disc space was not enough.
Timer recording is not available.	• Make sure that the recordable tape or disc should be inserted in the unit. If not, press **POWER** button.

Symptom	Remedy
Remote control	
The remote control does not function.	• Batteries are weak. • There are obstacles between the remote control unit and the main unit. • The remote control unit is far from the main unit. • There are no batteries in the remote control unit. • The remote control is not pointed at the remote sensor on the unit. • Check if a cassette tape is in this unit.
Others	
The unit does not operate properly.	• When static electricity causes the unit to operate abnormally, unplug the unit and wait a few minutes, then plug it in again.
The disc tray does not open when you press ▲ **OPEN/CLOSE** button in the main unit.	• It may take a few seconds for the disc tray to open after you have recorded or edited a disc. • The unit may be adding disc data to the disc. • The unit may still be recording.
My TV/VCR/DVD is showing captions that are misspelled.	• You are watching a live broadcast and spelling errors made by the closed captioning production company may pass through uncorrected. A prerecorded program will not show any misspelled words because of the normal time available for editing the captions.
My TV/VCR/DVD will not show the text dialogue in its entirety or there is a delay of what is being said.	• Captions that are delayed a few seconds behind the actual are common for live broadcast. Most captioning production companies can display a dialogue to a maximum of 220 words per minute. If a dialogue exceeds that rate, selective editing is used to insure that the captions remain up-to-date with the current TV screen dialogue.
My captions are scrambled with white boxes on the TV screen.	• Interference caused by building, power lines, thunderstorms, etc. may cause scrambled or incomplete captions to appear.
My program guide listed a TV show as being closed captioned but none of the captions were displayed.	• Broadcasters may at times use a time compression process to speed up the actual program so that additional advertising time can be given. Since the decoder cannot read the compressed information, captions will be lost.
My prerecorded video tape does not show any captions. The tape box mentions it being closed captioned.	• The video tape was either an illegal copy or the tape duplicating company accidentally left out the captioning signals during the copying process.
My TV screen shows a black box on certain channels.	• You are in the TEXT mode. Set CAPTION mode to CAPTION [OFF].
"Repairing" appears on the display. 	• If there is a power failure or unplugging during recording, finalizing, formatting or editing, a Repairing process will begin automatically just after turning the unit on again. It may take several minutes up to about four hours.
⚠ The DVD disc that I recorded will not be played on other DVD units.	• You must "Finalize" all recorded discs before they can be played on other DVD players. Without finalization, Video mode discs cannot be played back on other DVD players, and VR mode discs cannot be played back on other VR compatible players. See "Finalizing Discs" on page 54.
I have finalized the DVD disc, but it will still not be played back on other DVD units.	• Not all DVD recordable discs will be played on all DVD units. This is inherent in the DVD recordable format.

Error message	Cause	Solution
Disc Error — Please eject the disc. — Playback feature may not be available on this Disc.	Unplayable disc is inserted in the DVD recorder.	Insert the standardized disc which bear the marks on page 31.
Region Error — Please eject the disc. — Playback is not authorized in your region.	Playback is not authorized because the region code of the DVD video disc you inserted is different.	Insert the DVD-Video disc with region codes 1 or ALL.
Parental Lock On — Please eject the disc. — The current selected parental level Prohibits playback.	The current selected parental level in the SETUP Menu prohibits playback.	Check the "Parental Lock" setting (page 72).
Recording Error This program is not allowed to be recorded.	The recording function encountered the copy prohibited program.	You cannot record copy prohibited programs.
Recording Error This program is not recordable in Video mode.	You are trying to record the copy-once program onto the DVD-RW disc in Video mode or the DVD-R disc.	Set "DVD-RW Recording Format" to "VR mode" (page 49-50).
Recording Error Can not record on this disc.	You are trying to record onto the disc which is unrecordable, or the disc status prevents recording.	Insert the recordable disc, and ensure the disc status satisfies the recording requirements (pages 48-55).
Recording Error This program is not allowed to be recorded on this disc.	You are trying to record a copy-once program onto a DVD-RW disc which is not compatible with CPRM.	Insert a ver.1.1 CPRM compatible DVD-RW disc (page 49).
Recording Error This disc is protected and not recordable.	You are trying to record on to the protected disc which is set in the Disc Setting Menu.	Release the disc protect setting in the Disc Setting menu (page 55).
Recording Error Disc is full. (No area for new recording)	You are trying to record onto the disc which has no space for recording.	Insert the recordable disc with enough recording space.
Recording Error You cannot record more than 99 titles on one disc. (The maximum is 99)	You are trying to record onto the disc on which the number of recording titles comes up to the maximum (99).	Delete unnecessary titles (pages 62, 64).
Recording Error You cannot record more the 999 chapters on one disc. (The maximum is 999)	You are trying to record onto the VR mode DVD-RW disc on which the number of recording chapters comes up to the maximum (999).	Delete unnecessary chapter markers (pages 63, 66).
Recording Error You cannot record on this disc as Control Information is full.	This disc has no space to write the Control Information when recording or deleting contents. When editing has been repeatedly performed, the control Information area may come up to be full even the recording area has enough space.	Delete unnecessary titles (pages 62, 64).
Recording Error You cannot record on the disc as Power Calibration Area is full.	This disc's working area for recording is full. When recordings are performed repeatedly onto an unstable disc, this area may fill up.	Insert a new disc.
Recording Error This disc is already finalized.	You are trying to record onto the disc already finalized.	Release the finalizing for this disc (page 54).

MAINTENANCE

CLEANING DISCS

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out. Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analogue records.

CLEANING THE DISC LENS

- If this unit still does not perform properly although you refer to the relevant sections and to "TROUBLESHOOTING GUIDE" in this Owner's Manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

DISC HANDLING

- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
- Always store the disc in its protective case when it is not used.

CABINET CLEANING

- Wipe the front panel and other exterior surfaces of the TV/VCR/DVD with a soft cloth immersed in lukewarm water and wrung dry.
- Never use a solvent or alcohol. Do not spray insecticide liquid near the TV/VCR/DVD. Such chemicals may cause damage and discoloration to the exposed surfaces.

AUTO HEAD CLEANING

- Automatically cleans video heads as you insert or remove a cassette, so you can see a clear picture.
- Playback picture may become blurred of interrupted while the TV program reception is clear. Dirt accumulated on the video heads after long periods of use, or the usage of rental or worn tapes can cause this problem.
  If a streaky or snowy picture appears during playback, the video heads in your TV/VCR/DVD may need to be cleaned.
  1. Please visit your local Audio/Video store and purchase a good quality VHS Video Head Cleaner.
  2. If a Video Head Cleaner does not solve the problem, please call our help line at 1-800-488-1222, to locate an Authorized Service Center.

  NOTES:

  • Remember to read the in truction included with the video head cleaner before u e.

  • Clean video head only when problem occur.

SERVICING

- Should your TV/VCR/DVD become inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Please refer to the warranty statement page at the rear of this manual.

LANGUAGE CODE

Language	Code
(Afan) Oromo	6159
Abkhazian	4748
Afar	4747
Afrikaans	4752
Albanian	6563
Amharic	4759
Arabic	4764
Armenian	5471
Assamese	4765
Aymara	4771
Azerbaijani	4772
Bashkir	4847
Basque	5167
Bengali;Bangla	4860
Bhutani	5072
Bihari	4854
Bislama	4855
Breton	4864
Bulgarian	4853
Burmese	5971
Byelorussian	4851
Cambodian	5759
Catalan	4947
Chinese	7254
Corsican	4961
Croatian	5464
Czech	4965
Danish	5047
Dutch	6058
English	5160
Esperanto	5161
Estonian	5166
Faroese	5261
Fiji	5256

Language	Code
Finnish	5255
French	5264
Frisian	5271
Galician	5358
Georgian	5747
German	5051
Greek	5158
Greenlandic	5758
Guarani	5360
Gujarati	5367
Hausa	5447
Hebrew	5569
Hindi	5455
Hungarian	5467
Icelandic	5565
Indonesian	5560
Interlingua	5547
Interlingue	5551
Inupiak	5557
Irish	5347
Italian	5566
Japanese	5647
Javanese	5669
Kannada	5760
Kashmiri	5765
Kazakh	5757
Kinyarwanda	6469
Kirghiz	5771
Kirundi	6460
Korean	5761
Kurdish	5767
Laothian	5861
Latin	5847
Latvian; Lettish	5868

Language	Code
Lingala	5860
Lithuanian	5866
Macedonian	5957
Malagasy	5953
Malay	5965
Malayalam	5958
Maltese	5966
Maori	5955
Marathi	5964
Moldavian	5961
Mongolian	5960
Nauru	6047
Nepali	6051
Norwegian	6061
Occitan	6149
Oriya	6164
Panjabi	6247
Pashto; Pushto	6265
Persian	5247
Polish	6258
Portuguese	6266
Quechua	6367
Rhaeto-Romance	6459
Romanian	6461
Russian	6467
Samoan	6559
Sangho	6553
Sanskrit	6547
Scots Gaelic	5350
Serbian	6564
Serbo-Croatian	6554
Sesotho	6566
Setswana	6660
Shona	6560

Language	Code
Sindhi	6550
Singhalese	6555
Siswat	6565
Slovak	6557
Slovenian	6558
Somali	6561
Spanish	5165
Sundanese	6567
Swahili	6569
Swedish	6568
Tagalog	6658
Tajik	6653
Tamil	6647
Tatar	6666
Telugu	6651
Thai	6654
Tibetan	4861
Tigrinya	6655
Tonga	6661
Tsonga	6665
Turkish	6664
Turkmen	6657
Twi	6669
Ukrainian	6757
Urdu	6764
Uzbek	6772
Vietnamese	6855
Volapuk	6861
Welsh	4971
Wolof	6961
Xhosa	7054
Yiddish	5655
Yoruba	7161
Zulu	7267

GLOSSARY

Analog audio

An electrical signal that directly represents sound.
Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound. See also "Digital audio".

Aspect ratio

The width of a TV screen is relative to its height. Conventional TVs are 4:3 (in other words, the screen is almost square); widescreen models are 16:9 (the screen is almost twice as wide as it is high).

Chapter

Just as a book is split up into several chapters, a title on a DVD disc is usually divided into chapters.
See also "Title".

CPRM (Content Protection for Recordable Media)

CPRM is a copy protection system with scramble system regarding the recording of "copy-once" broadcast programs (e.g. some satellite broadcasts).

Digital audio

An indirect representation of sound by numbers.
During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also "Sampling frequency" and "Analog audio".

Dolby Digital

The system to compress digital sound developed by Dolby Laboratories.
It offers you sound of stereo(2ch) or multi-channel audio (up to 6 channels (5.1ch)).

MP3 (MPEG Audio Layer 3)

MP3 is a method of compressing files. You can copy MP3 files on CD-R/RW discs from the computer and play the files on this unit.

⚠ Finalize

To make DVD discs, which have been recorded on, possible to play in other DVD players. With this unit, it is possible to finalize DVD-R/DVD-RW discs.

PCM (Pulse Code Modulation)

The most common system of encoding digital audio, found on CDs and DAT.
Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital and MPEG audio to PCM.
See also "Digital audio".

Playlist

From this list you can play contents of a disc as your desired order or in sequence. Also it is allowed to search a specific scene directly.

Regions code

Regions associate discs and players with particular areas of the world. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

Sampling frequency

The sound rate is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality as possible as it is.

SAP (Secondary Audio Program)

Second-audio channel delivered separately from main-audio channel. This audio channel is used as an alternate in bilingual broadcasting.

S-Video output

It delivers independently each signal of color(C) and luminance (Y) to TV as video signals, so that higher-quality picture will be gained.

Title (DVD only)

A collection of chapters on DVD disc.
See also "Chapter".

Track

Audio CDs use tracks to divide up the content of a disc. The DVD equivalent is called a chapter. See also "Chapter".

SPECIFICATIONS

GENERAL SPECIFICATIONS

CRT	27 inch in-line gun, 90˚ deflection tube
Television system :	NTSC-M
Closed caption system :	§15.119/FCC
Video Heads :	Rotary four-head
Tape width :	1/2 inch
Tape speed	
SP :	33.40mm/sec.
LP :	16.67mm/sec. (playback only)
SLP :	11.12mm/sec.
Tuner channel	
TV VHF Low :	#2~#6
TV VHF High :	#7~#13
TV UHF :	#14~#69
CATV	
VHF :	5A
MID band :	A5~A1, A~I
SUPER band :	J~W
HYPER band :	W+1~W+84
System:	DVD-Video, DVD-R/RW, CD-DA, CD-R/RW

ELECTRICAL SPECIFICATIONS

Sound output:	2 speakers, 1W, 8 ohm

OTHER SPECIFICATIONS

Terminals	
Antenna input:	VHF/UHF/CATV 75 ohm unbalanced (F-type)
S-Video input:	75 ohm 4 pin mini DIN
Video input:	RCA connector × 1
Audio L/R input:	RCA connector × 2
Headphone:	1/8” stereo (3.5 mm)
Coaxial digital audio output:	One pin jack, 500m Vpp (75 ohm)
Remote control:	Digital encoded infrared light system
Operating temperature:	5°C to 40°C (41°F~104°F)
Operating humidity:	5% to 85% (no condensation)
Power requirements:	AC 120V, 60Hz
Power consumption (Maximum):	143W
Picture tube:	27 Pure Flat
Dimensions:	W:30-9/16” (776mm) D:19-15/16” (507mm) H:25-3/8” (644mm)
Weight:	94.8 lbs (43kg)

NOTE:

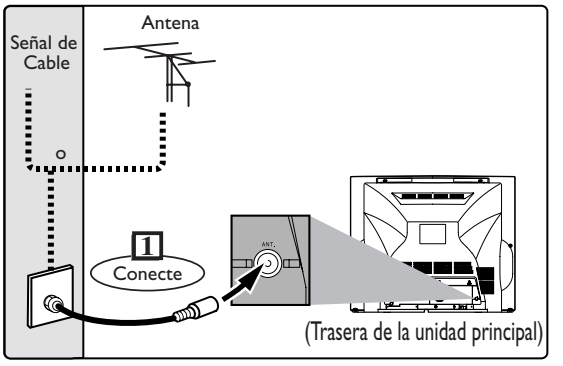
• The pecification and de ign of thi product are ubject to change without notice.

As an ENERGY STAR ® Partner, our company has determined that this product meets the ENERGY STAR ® guidelines for energy efficiency. ENERGY STAR ® is a U.S. registered mark.

MEMO

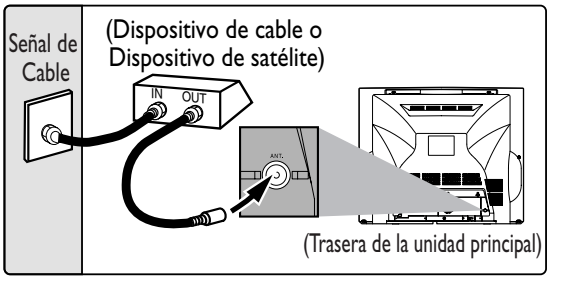
CONEXIONES

Conexión de la Unidad Principal



2 Enchufe el cable de alimentación CA de esta unidad.

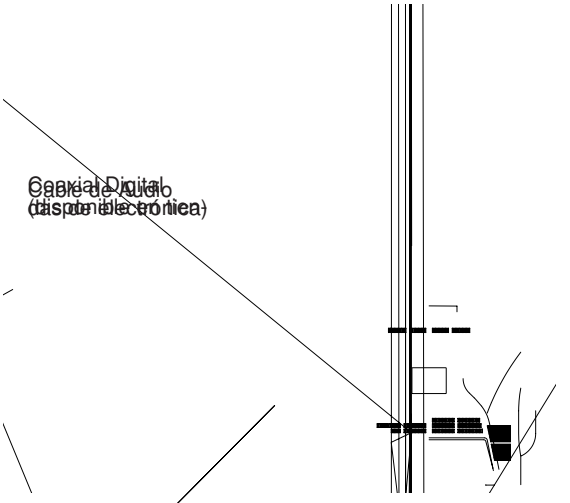
Conexión al Dispositivo de cable o al Dispositivo de satélite



Seleccione esta conexión cuando quiera visualizar o grabar un canal codificado. Con esta conexión, no se puede cambiar de canal en la unidad TV/VCR/DVD. Puede visualizar o grabar ÚNICAMENTE los canales seleccionados en el dispositivo

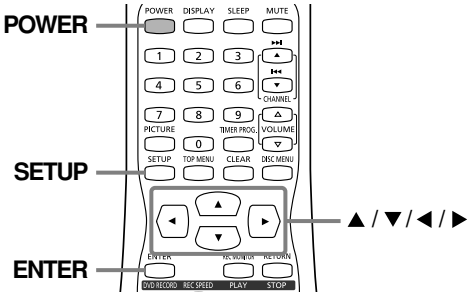
Conexión al Sistema de Audio

- Antes de cambiar las conexiones o instalar la unidad, todos los dispositivos deben estar apagados.
- Lea los manuales de usuario del resto de dispositivos para obtener más información.



AJUSTE DEL IDIOMA DE LOS OSD

Puede seleccionar el idioma de los menús en pantalla (OSD).



1 Pulse el botón **POWER** para encender la unidad.

2 Pulse el botón **SETUP** para acceder al menú SETUP/DISC.

Aparecerá el menú SETUP/DISC.

3 Seleccione "SETUP" utilizando los botones ◀/▶, después pulse el botón **ENTER**.

Aparecerá el menú SETUP.

4 Seleccione "Display" utilizando los botones ▲/▼/◀/▶, después pulse el botón **ENTER**.

Aparecerá la ventana de opciones.

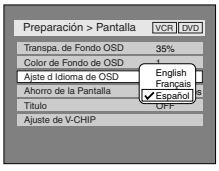
5 Seleccione "OSD Language" utilizando los botones ▲/▼, después pulse el botón **ENTER**.

NOTA:

• El idioma por defecto de lo OSD e el inglé .

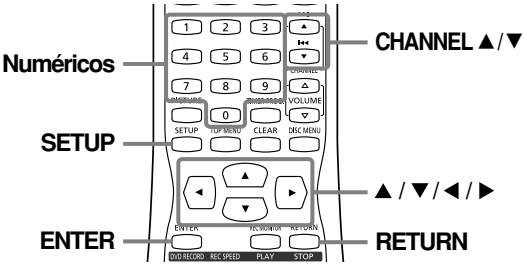
6 Seleccione el idioma deseado de entre "English", "Français" y "Español" utilizando los botones ▲/▼, después pulse el botón **ENTER**.

Se activará el ajuste de idioma seleccionado.



7 Pulse el botón **SETUP** para salir del Menú de Preparación.

AJUSTE DE CANALES



1 Pulse el botón **SETUP** para acceder al menú SETUP/DISC.

Aparecerá el menú SETUP/DISC.

2 Seleccione "SETUP" utilizando los botones ◀/▶, después pulse el botón **ENTER**.

Aparecerá el Menú de Preparación.

3 Seleccione "Channel" utilizando los botones ▲/▼/◀/▶, después pulse el botón **ENTER**.

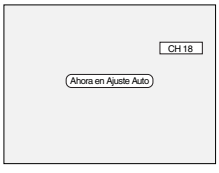
Aparecerá el menú Ajuste de Canal.

4 Seleccione "Ajuste Auto" utilizando los botones ▲/▼, después pulse el botón **ENTER**.

La unidad comenzará a realizar una búsqueda de los canales disponibles en su zona.

Para cancelar el Ajuste Auto durante la búsqueda:

Pulse el botón **RETURN** o el botón **SETUP** para cancelar la operación.



NOTA:

• Si e cancela la operación Aju te Auto ante de completar el aju te previo, puede que alguno canale que no e hayan aju tado previamente no e encuentren di ponible .

• La elección dependerá de cómo recibe lo canale de televi ión.

5 Pulse el botón **SETUP** para salir del menú.

Puede seleccionar únicamente los canales memorizados en esta unidad utilizando los botones **CHANNEL ▲/▼**.

Para seleccionar un canal:

Puede seleccionar un canal introduciendo directamente el mismo utilizando los botones **numéricos** del mando a distancia.

⚠Notas para la utilización de los botones numéricos:

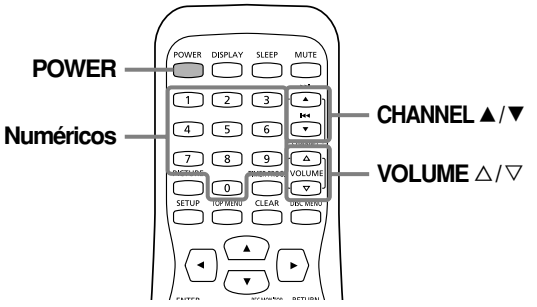
• Cuando eleccione lo canale de cable uperiore al número 99, introduzca lo número de canal como dígito de tre cifra . (Por ejemplo: 117, pul e 1,1,7)

• Debe introducir delante de lo número de canale de una cifra el número cero (Por ejemplo: 02, 03, 04 y en adelante).

• Puede eleccionar el modo de entrada en línea ("AUX"). Para eleccionar "AUX" pul e [0], [0]. Má información en la página 56.

FUNCIONES DE TELEVISIÓN

Visualización de un programa de televisión



1 Pulse el botón **POWER** para encender la unidad.

2 Seleccione el canal deseado utilizando los botones **CHANNEL ▲/▼** o los botones **numéricos** del mando a distancia.

Si la unidad TV/VCR/DVD está conectada a un dispositivo de cable o de satélite, el TV/VCR/DVD deberá encontrarse en el canal 3 o 4 y, en tal caso, el canal que desee visualizar deberá seleccionarlo desde el dispositivo de cable o del satélite.

3 Ajuste el volumen al nivel de escucha deseado utilizando los botones **VOLUME** △/▽.

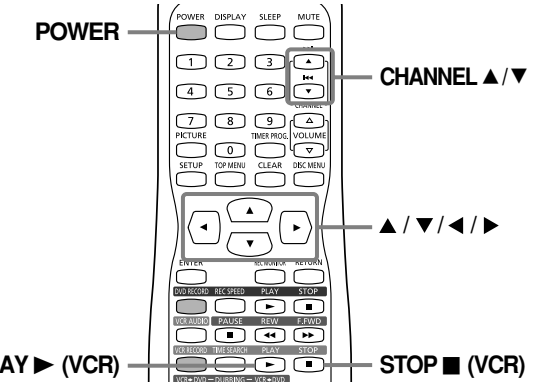
4 Ajuste el control de la imagen para obtener un aspecto natural.

5 Cuando termine de ver la televisión, pulse el botón **POWER** para apagar el televisor.

FUNCIONES VCR

Reproducción

VCR



1 Pulse el botón **POWER** para encender la unidad.

2 Introduzca la cinta pregrabada y pulse el botón **PLAY ► (VCR)** para comenzar la reproducción.

NOTA:

- *Cuando e introduce una cinta in etiqueta de grabación, la reproducción comenzará automáticamente.*
- *El ra treo de pi ta e aju tará automáticamente cuando comience la reproducción. Para aju tarlo manualmente, pul e lo botone **CHANNEL** ▲/▼ de la unidad principal o lo botone **CHANNEL** ▲/▼ del mando a di tancia.*

3 Pulse el botón **STOP ■ (VCR)** para detener la reproducción.

4 Pulse el botón ■ **STOP**/⏏ **EJECT** de la unidad principal para extraer la cinta.

Reproducción

DVD-V DVD-R DVD-RW (Video)
DVD-RW (VR) CD MP3

Modo de VR:

Botón **DISC MENU**

1 Pulse el botón **POWER**.

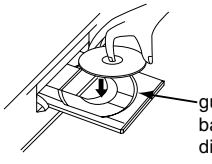
2 Pulse el botón ▲ **OPEN/CLOSE** de la unidad principal para abrir la bandeja de discos.

La bandeja de discos se abrirá.

3 Coloque el disco en la bandeja de discos con la etiqueta hacia arriba y asegúrese de que se ajuste perfectamente a la guía. Pulse el botón ▲ **OPEN/CLOSE** otra vez para cerrar la bandeja de discos.

NOTA:

- *E ta operación puede tardar uno minuto en completar e.*
- *Puede que alguno di co e reproduzcan automáticamente.*
- *Si reproduce un di co de vídeo DVD, puede que aparezca un menú.*



guía de la bandeja de discos

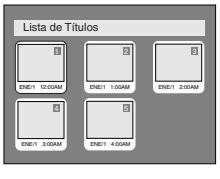
NOTA:

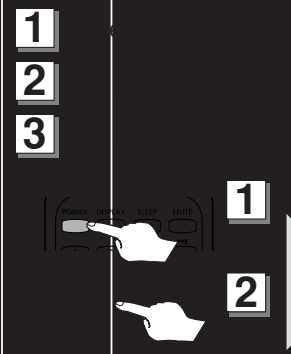
- *Pul e el botón **TOP MENU** para alir del menú.*
- *Para di co DVD-R (Modo de Video) y DVD-RW (Modo de Video) que ya han ido ultimado , e mo trará una li ta de título en lugar de pequeña178.74 NUVcomor*

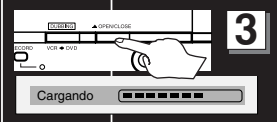
4 Pulse el botón **TOP MENU** para acceder al menú de títulos.

Puede cambiar entre los modos "Original" o "Playlist" de VR utilizando el botón **DISC MENU**.

Modo de Video:

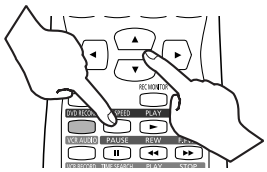


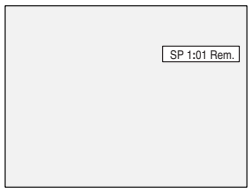




Paso 3: Seleccione la velocidad de grabación

Para seleccionar la velocidad de grabación, pulse una vez el botón **REC SPEED**, posteriormente, cambie la velocidad de grabación pulsando los botones ▲/▼.





: El más adecuado. : Puede utilizarse. : Algunas funciones están limitadas. No puede utilizarse.

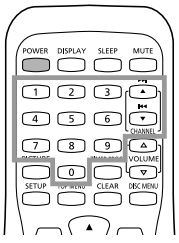
DVD-R

Características	DVD-RW	DVD-RW Video	DVD-R
Grabación			
¿Regrabable?	Sí	Sí	No
Puede crear capítulos en intervalos fijos (auto.)	Sí	Sí	Sí
Puede crear capítulos allí donde lo desee (manual)	Sí	No	No
Puede grabar imágenes de 16:9	Sí	Sí	Sí
Puede grabar programas de una sola copia	Sí	No	No
Puede efectuar funciones de edición básicas	Sí	Sí	Sí
Puede efectuar funciones de edición avanzadas (Edición de Playlist)	Sí	No	No

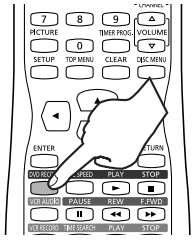
*1 El DVD-RW (Modo de VR) sólo puede reproducirse en equipos de DVD compatibles con VR.

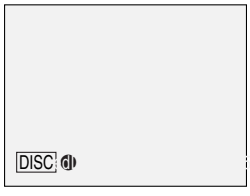
NOTA:
Para más información acerca de las funciones

Paso 4: Seleccione el canal deseado

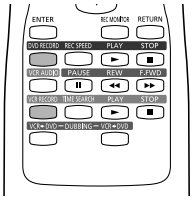


Paso 5: Pulse el botón DVD RECORD





Paso 6: Detenga la Grabación



Get it fixed, at your home or ours!

Your Home

For repair– **in your home** –of **all** major brand appliances, lawn and garden equipment, or heating and cooling systems, **no matter who made it, no matter who sold it!**

For the replacement parts, accessories and owner's manuals that you need to do-it-yourself.

For Sears professional installation of home appliances and items like garage door openers and water heaters.

1-800-4-MY-HOME® **(1-800-469-4663)**

Call anytime, day or night (U.S.A. and Canada)

www.sears.com **www.sears.ca**

Our Home

For repair of carry-in items like vacuums, lawn equipment, and electronics, call or go on-line for the location of your nearest **Sears Parts & Repair Center.**

1-800-488-1222

Call anytime, day or night (U.S.A. only)

www.sears.com

To purchase a protection agreement on a product serviced by Sears:

1-800-827-6655 (U.S.A.) **1-800-361-6665** (Canada)

Para pedir servicio de reparación a domicilio, y para ordenar piezas:

1-888-SU-HOGARSM

(1-888-784-6427)

Au Canada pour service en français:

1-800-LE-FOYERMC

(1-800-533-6937)

www.sears.ca

SEARS

® Registered Trademark / ™ Trademark / SM Service Mark of Sears, Roebuck and Co.
® Marca Registrada / ™ Marca de Fábrica / SM Marca de Servicio de Sears, Roebuck and Co.
MC Marque de commerce / MD Marque déposée de Sears, Roebuck and Co. © Sears, Roebuck and Co.

90 Day Full Warranty

If this (product) experiences any failure due to a defect in material or workmanship within 90 days from the date of purchase, return it to your nearest Sears Parts & Repair Center, and Sears will repair it free of charge.

After 90 days and until one (1) year from the date of purchase, Sears will replace defective parts free of charge. You pay for labor.

After 90 days and until two (2) years from the date of purchase, Sears will replace the Picture Tube if it is defective. You pay for labor.

This warranty applies only if this (product) is used for private household purposes.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., Dept. 817WA, Hoffman Estates, IL 60179
For the location of a Sears Service Center in your area : 1-800-488-1222

Printed in Malaysia

1EMN20100
T2020UA ★★★★★